

Fastening Systems Engineered For Performance™

RIVET NUT INSERT CATALOG



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COMPANY OVERVIEW

ABOUT SHEREX

Sherex Industries was founded in 1979 in Buffalo, NY primarily serving the Automotive and Fluid Power markets. In 2004, the rivet nut division was spun off, and became Sherex Fastening Solutions. Throughout our 40 year history, we've remained steadfast in our mission to deliver high quality fastening solutions at the lowest total installed cost. We've expanded and improved our offerings and services by creating proprietary products, forming strategic partnerships, and establishing world-class production facilities and customer support centers in Taiwan, Mexico, U.K., Poland, and Akron, Ohio.

We've assembled a team of experienced, knowledgeable engineering and technical sales professionals that are dedicated to exceeding our customers' needs by collaborating to create customized, application-specific solutions.



GLOBAL PRESENCE

Sherex provides service and support to our customers around the world through a network of sales offices, technical support centers, distribution hubs, and manufacturing facilities.



**MANUFACTURING
FACILITIES
&
QUALITY**

WORLD CLASS MANUFACTURING FACILITIES

Sherex has two strategically-located, ISO certified manufacturing facilities in Chungli City, Taiwan, and Akron, Ohio that produce a wide variety of fasteners.

SHEREX TAIWAN



Sherex Taiwan specializes in using cold forming technology to produce rivet nuts, clinch nuts, and specialty designs in a high volume production environment. We are also capable of machining parts for production and application development.

SHEREX AKRON



Sherex Akron manufactures MS/NAS fasteners, Sherex standard rivet nuts, and other specialty parts using cold forming and machining technologies. Our small and large batch production capabilities allow us to offer reduced lead times and low minimum order quantities. Cage Codes 7EK30 and 4JQL4. QSLM approved by the U.S. Defense and Logistics Agency.

UNSURPASSED QUALITY

Each Sherex manufacturing facility is led by a team of seasoned engineering professionals charged with ensuring all products meet stringent quality requirements. Our facilities are certified to **AS9100, ISO 9001:2015, ISO 14001:2015, IATF 16949:2016, and ISO 17025:2017**. The Sherex Quality Management System, and our use of SPC (Statistical Process Control) ensures that all of our products are manufactured using reliable, repeatable, and compliant processes.

We also use tensile testing, accelerated corrosion salt spray testing machines, torque testing, standard measurement and gauging equipment, and optical sorting machines to ensure world class product quality. Please contact us for more information on our quality certifications and processes.

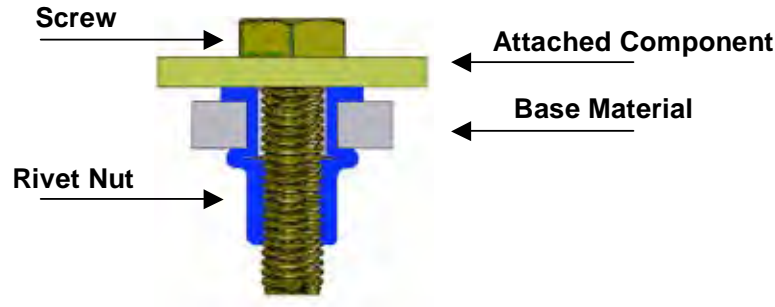


RIVET NUT INTRODUCTION

RIVET NUT INTRO

Blind Rivet Nuts provide load-bearing threads in thin sheet materials that are too thin for a tapped thread. They are called “blind” because they can be installed from one side of the work piece.

Once the rivet nut is installed, additional components can be attached using threaded fasteners.



ADVANTAGES OF RIVET NUTS

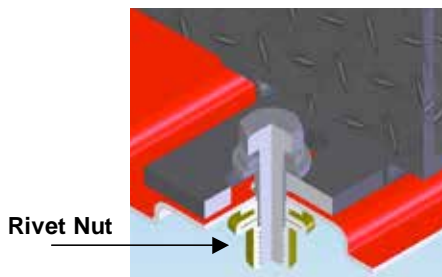
- Provide a strong thread in thin materials that cannot be tapped.
- Can be installed from one side of the work piece as a “Blind Application.”
- Are ideal when easy disassembly and reassembly of products is required.
- Can be installed in many different kinds of material including steel, plastic and fiberglass.
- Once Rivet Nuts are installed, additional components with threaded fasteners can be attached.
- Prepainted material will not be damaged during the Rivet Nut installation process.
- Rivet Nuts are available in many different styles & materials for many different types of applications.
- Ideal replacement for weld nuts:
 - More efficient, simple installation
 - Will not distort base material
 - Eliminate weld spatter, toxic fumes, and other by-products of the welding process

Rivet nuts are used in a variety of industries:

- Automotive
- HVAC
- Aerospace and Defense
- Agricultural Equipment
- Construction Equipment
- General Industrial
- Electronics
- Medical
- Railways
- Heavy Truck
- Solar
- Wind Power



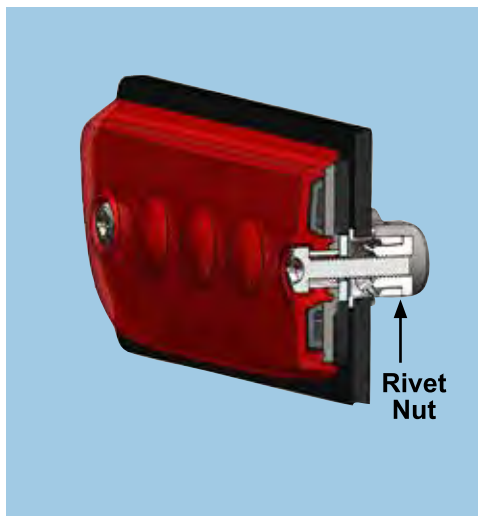
EXAMPLES OF RIVET NUT APPLICATIONS



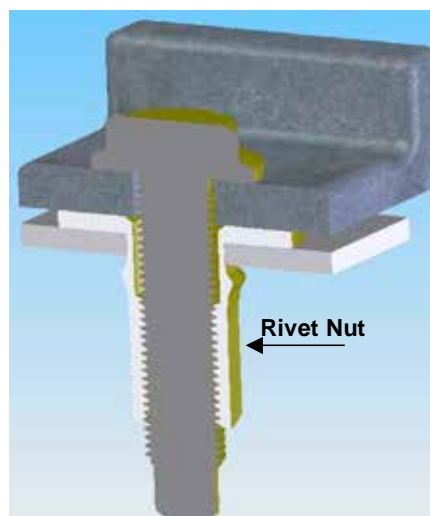
After Market Vehicle Retrofit – Tool Box



Vehicle Accessory – Pickup Side Rail



Automotive – Light Assembly
Rivet Nut



Agriculture Equipment – High Strength
Rivet Nut

RIVET NUT INTRODUCTION

BODY STYLE OVERVIEW

Inch/Imperial Body Styles



- Imperial/Inch body styles are designed to be placed in fractional or common inch drill/punch hole sizes.
- They are the most common styles used in the American marketplace.
- Most inch/imperial body styles are available with metric or inch threads.
- Parts are manufactured by Sherex Taiwan, our **IATF 16949:2016** and **ISO 14001** certified production facility, and Sherex Akron, our **AS9100** and **ISO 9001:2015** certified facility.
- Special designs are available to meet customer specific requirements. Contact Sherex with your application information.

CATALOG ATTRIBUTES - INCH BODY STYLE

| | | | |
|-------------------|--------------------|---------------|-----------------------------|
| Grip Range | Material Thickness | D(A/F) | Diameter Across Flats |
| L | Length | IL | Installed Length |
| HD | Head Diameter | LB | Length Closed End |
| HT | Head Thickness | ILB | Installed Length Closed End |
| D | Diameter | ITD | Installed Thread Depth |

Metric/European Body Styles



- Metric European body styles are designed to be placed into metric drilled or punched holes.
- Many metric body styles are available with metric or inch threads.
- Products are manufactured in our **IATF 16949:2016**, **AS9100**, and **ISO 9001:2015** certified production facility or in the **EN 9100** certified production facility of our partner, Dejond, in Belgium.
- Special designs are available to meet customer specific requirements. Contact Sherex with your application information.

CATALOG ATTRIBUTES - METRIC BODY STYLE

| | | | |
|----------------------|--------------------|---------------|-----------------------|
| Grip Range(E) | Material Thickness | d | Diameter |
| L | Length | d(A/F) | Diameter Across Flats |
| D | Head Diameter | b | Hole Size |
| K | Head Thickness | | |





HEX BODY RIVET NUTS



Hex body rivet nuts provide superior spin out resistance to round body rivet nuts. When a hex shaped hole can be produced, we recommend using one of our full hex or half hex rivet nut product lines:

- **Full Hex** rivet nuts are ideal for heavy duty applications, and should be installed with hydro-pneumatic spin-pull tools
- **Half Hex** rivet nuts are ideal for light duty applications, and can be installed using all Sherex tools




FULL HEX - INCH AND METRIC

| Product Line | Body | Head (Flange) | | Available | | Performance |
|---|------|---------------|-------|------------|------------|----------------------------|
| | Hex | Small | Large | Closed End | Sealed End | Class 8/Grade 5 Proof Load |
| FHL  | ✓ | | ✓ | ✓ | ✓ | ✓ |
| FHK  | ✓ | ✓ | | ✓ | | ✓ |
| CFH  | ✓ | | ✓ | ✓ | ✓ | |

FULL HEX - METRIC

| Product Line | Body | Head (Flange) | | Available Modifications | |
|---|------|---------------|-------|-------------------------|-------------|
| | Hex | Small | Large | Closed End | Sealed Head |
| HUPO Tubtara®  | ✓ | | ✓ | ✓ | ✓ |
| HUKO Tubtara®  | ✓ | ✓ | | ✓ | ✓ |

HALF HEX - INCH AND METRIC

| Product Line | Body | Head (Flange) | | Available Modifications | |
|--|----------|---------------|-------|-------------------------|-------------|
| | Half Hex | Small | Large | Closed End | Sealed Head |
| CAH  | ✓ | | ✓ | ✓ | ✓ |
| HUPO METRIC Tubtara®  | ✓ | ✓ | ✓ | ✓ | ✓ |
| HUKO METRIC Tubtara®  | ✓ | ✓ | ✓ | ✓ | |

FHK/FHL FULL HEX BODY SMALL AND LARGE FLANGE SERIES

FHK/ FHL SERIES

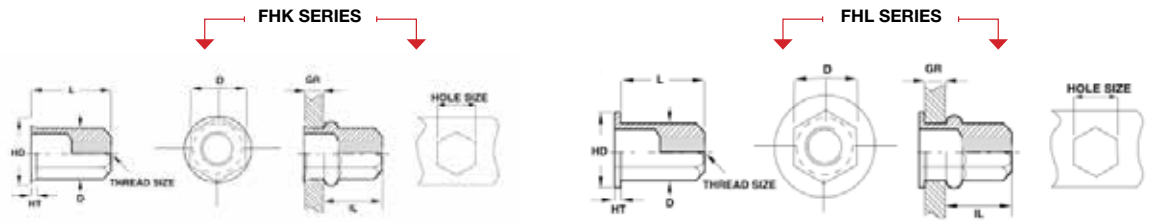
- The FHK/FHL series provides increased spin out resistance over round body and half hex body rivet nuts.
- Proven to meet Class 8 and Grade 5 thread strength.
- Inch body
- Inch and metric threads



- The FHK series has a small flange for a near flush installation.



- The FHL series has a large flange to provide increased strength in punched and drilled holes.



FHK-SMALL FLANGE UNIFIED THREAD (UNIT - INCHES)

| Part Number Inch - Steel | Thread Size | Grip Range | | L ± .015 | HD (A/F) ± .010 ± .015* ± .025** | HT ± .005 ± .008 | D (A/F) Max. | IL Ref. | Hole Size (A/F) +.004/-.000 |
|-----------------------------|-------------|------------|------|-------------|-------------------------------------|---------------------|-----------------|------------|--------------------------------|
| | | Min. | Max. | | | | | | |
| FHK2-2520-138 | 1/4-20 UNC | .039 | .138 | .673 | .390 | .016 | .354 | .469 | .354 |
| FHK2-2520-236 | | .138 | .236 | .772 | | | | | |
| FHK2-2520-335 | | .236 | .335 | .870 | | | | | |
| FHK2-3118-157 | 5/16-18 UNC | .031 | .157 | .787 | .457 | .016 | .432 | .535 | .433 |
| FHK2-3118-276 | | .157 | .276 | .913 | | | | | |
| FHK2-3118-394 | | .276 | .394 | 1.039 | | | | | |
| FHK2-3716-177 | 3/8-16 UNC | .039 | .177 | .955 | .559* | .025* | .511 | .689 | .512 |
| FHK2-3716-295 | | .177 | .295 | 1.053 | | | | | |
| FHK2-3716-413 | | .295 | .413 | 1.191 | | | | | |
| FHK2-5013-177 | 1/2-13 UNC | .039 | .177 | 1.215 | .734** | .044* | .656 | .866 | .656 |

FHK-SMALL FLANGE METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Metric - Steel | Thread Size | Grip Range | | L ± .38 | HD (A/F) ± .25 ± .38* ± .64** | HT ± 0.13 ± 0.18* | D (A/F) Max. | IL Ref. | Hole Size (A/F) +.10/-0.00 |
|-------------------------------|----------------|------------|------|------------|----------------------------------|----------------------|-----------------|------------|-------------------------------|
| | | Min. | Max. | | | | | | |
| FHK2-610-3.5 | M6 X 1.0 ISO | 1.0 | 3.5 | 17.10 | 9.92 | .44 | 8.98 | 11.9 | 9.0 |
| FHK2-610-6.0 | | 3.5 | 6.0 | 19.60 | | | | | |
| FHK2-610-8.5 | | 6.0 | 8.5 | 22.10 | | | | | |
| FHK2-8125-4.0 | M8 X 1.25 ISO | 0.8 | 4.0 | 20.00 | 11.60 | .41 | 10.98 | 13.6 | 11.0 |
| FHK2-8125-7.0 | | 4.0 | 7.0 | 23.20 | | | | | |
| FHK2-8125-10.0 | | 7.0 | 10.0 | 26.40 | | | | | |
| FHK2-1015-4.5 | M10 X 1.5 ISO | 1.0 | 4.5 | 24.25 | 14.20* | .64* | 12.98 | 17.5 | 13.0 |
| FHK2-1015-7.5 | | 4.5 | 7.5 | 26.75 | | | | | |
| FHK2-1015-10.5 | | 7.5 | 10.5 | 30.25 | | | | | |
| FHK2-12175-4.5 | M12 X 1.75 ISO | 1.0 | 4.5 | 30.85 | 18.65** | 1.12* | 16.65 | 22.0 | 16.66 |

FHL - LARGE FLANGE UNIFIED THREAD (UNIT - INCHES)

| Part Number Inch - Steel | Thread Size | Grip Range | | L ± .015 | HD (A/F) ± .014 | HT ± .006 | D (A/F) Max. | IL Ref. | Hole Size (A/F) +.004/-.000 |
|-----------------------------|-------------|------------|------|-------------|--------------------|--------------|-----------------|------------|--------------------------------|
| | | Min. | Max. | | | | | | |
| FHL2-2520-138 | 1/4-20 UNC | .039 | .138 | .657 | .511 | .059 | .354 | .469 | .354 |
| FHL2-2520-236 | | .138 | .236 | .756 | | | | | |
| FHL2-2520-335 | | .236 | .335 | .854 | | | | | |
| FHL2-3118-157 | 5/16-18 UNC | .031 | .157 | .771 | .630 | .059 | .432 | .535 | .433 |
| FHL2-3118-276 | | .157 | .276 | .897 | | | | | |
| FHL2-3118-394 | | .276 | .394 | 1.020 | | | | | |
| FHL2-3716-177 | 3/8-16 UNC | .039 | .177 | .910 | .748 | .079 | .511 | .689 | .512 |
| FHL2-3716-295 | | .177 | .295 | 1.010 | | | | | |
| FHL2-3716-413 | | .295 | .413 | 1.140 | | | | | |

FHL-LARGE FLANGE METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Metric - Steel | Thread Size | Grip Range | | L ± .38 | HD (A/F) ± .35 | HT ± .15 | D (A/F) Max. | IL Ref. | Hole Size (A/F) +.10/-0.00 |
|-------------------------------|---------------|------------|------|------------|-------------------|-------------|-----------------|------------|-------------------------------|
| | | Min. | Max. | | | | | | |
| FHL2-610-3.5 | M6 X 1.0 ISO | 1.0 | 3.5 | 16.70 | 13.00 | 1.50 | 8.98 | 11.9 | 9.0 |
| FHL2-610-6.0 | | 3.5 | 6.0 | 19.20 | | | | | |
| FHL2-610-8.5 | | 6.0 | 8.5 | 21.70 | | | | | |
| FHL2-8125-4.0 | M8 X 1.25 ISO | 0.8 | 4.0 | 19.60 | 16.00 | 1.50 | 10.98 | 13.6 | 11.0 |
| FHL2-8125-7.0 | | 4.0 | 7.0 | 22.80 | | | | | |
| FHL2-8125-10.0 | | 7.0 | 10.0 | 26.00 | | | | | |
| FHL2-1015-4.5 | M10 X 1.5 ISO | 1.0 | 4.5 | 23.10 | 19.00 | 2.00 | 12.98 | 17.5 | 13.0 |
| FHL2-1015-7.5 | | 4.5 | 7.5 | 25.60 | | | | | |
| FHL2-1015-10.5 | | 7.5 | 10.5 | 29.10 | | | | | |

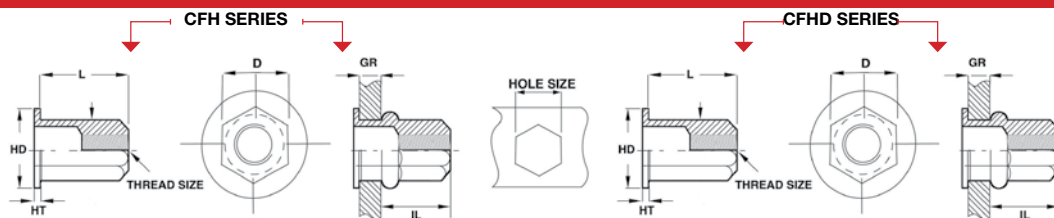
Material: Steel 1008/1010

RoHS Compliant Finishes: Zinc plated – clear trivalent chromate per Sherex SFS-01-001

Sherex full hex rivet nuts are compatible with the following hardware:
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8
Please contact Sherex when using other grade fasteners.

*Mechanical lock feature is available on all Full Hex parts. Please contact Sherex for details.
Mating material holes must be smaller than flange diameter.

CFH & CFHD FULL HEX BODY SERIES



**CFH/
CFHD
SERIES**

CFH UNIFIED THREAD (UNIT - INCHES)

| Part Number | Thread Size | Grip Range | | HD | | L ± .015 | HT Nom. | D (A/F) Max. | IL Ref. | Hole Size (A/F) +.005/- .000 |
|----------------|-------------|------------|------|------|------|-------------|------------|-----------------|------------|---------------------------------|
| | | Min. | Max. | Min. | Max. | | | | | |
| CFH2-1024-085♦ | 10-24 UNC | .010 | .085 | .329 | .359 | .344 | .043 | .223 | .200 | .224 |
| CFH2-1024-135♦ | 10-24 UNC | .085 | .135 | .329 | .359 | .406 | .043 | .223 | .210 | .224 |
| CFH2-1024-185♦ | 10-24 UNC | .135 | .185 | .329 | .359 | .453 | .043 | .223 | .210 | .224 |
| CFH2-1032-085♦ | 10-32 UNF | .010 | .085 | .329 | .359 | .344 | .043 | .223 | .200 | .224 |
| CFH2-1032-135♦ | 10-32 UNF | .085 | .135 | .329 | .359 | .406 | .043 | .223 | .210 | .224 |
| CFH2-1032-185♦ | 10-32 UNF | .135 | .185 | .329 | .359 | .453 | .043 | .223 | .210 | .224 |
| CFH2-2520-085 | 1/4-20 UNC | .020 | .085 | .422 | .452 | .406 | .043 | .296 | .250 | .297 |
| CFH2-2520-145 | 1/4-20 UNC | .085 | .145 | .422 | .452 | .469 | .043 | .296 | .250 | .297 |
| CFH2-2520-205♦ | 1/4-20 UNC | .145 | .205 | .422 | .452 | .531 | .043 | .296 | .250 | .297 |
| CFH2-3118-105 | 5/16-18 UNC | .030 | .105 | .547 | .577 | .562 | .048 | .368 | .375 | .369 |
| CFH2-3118-175 | 5/16-18 UNC | .105 | .175 | .547 | .577 | .640 | .048 | .368 | .380 | .369 |
| CFH2-3118-245♦ | 5/16-18 UNC | .175 | .245 | .547 | .577 | .703 | .048 | .368 | .375 | .369 |
| CFH2-3716-115♦ | 3/8-16 UNC | .030 | .115 | .641 | .671 | .625 | .058 | .437 | .400 | .438 |
| CFH2-3716-205♦ | 3/8-16 UNC | .115 | .205 | .641 | .671 | .718 | .058 | .437 | .405 | .438 |
| CFH2-3716-295♦ | 3/8-16 UNC | .205 | .295 | .641 | .671 | .812 | .058 | .437 | .410 | .438 |

CFH METRIC THREAD (UNIT - MILLIMETERS)

| Part Number | Thread Size | Grip Range | | HD | | L ± .38 | HT Nom. | D (A/F) Max. | IL Ref. | Hole Size (A/F) +.13/- .000 |
|----------------|--------------|------------|------|-------|-------|------------|------------|-----------------|------------|--------------------------------|
| | | Min. | Max. | Min. | Max. | | | | | |
| CFH2-580-2.1♦ | M5x0.8 ISO | 0.50 | 2.15 | 9.14 | 9.90 | 10.30 | 1.09 | 6.35 | 6.72 | 6.35 |
| CFH2-580-3.5♦ | M5x0.8 ISO | 2.15 | 3.55 | 9.14 | 9.90 | 11.90 | 1.09 | 6.35 | 6.72 | 6.35 |
| CFH2-580-5.0♦ | M5x0.8 ISO | 3.55 | 5.05 | 9.14 | 9.90 | 13.48 | 1.09 | 6.35 | 6.72 | 6.35 |
| CFH2-610-2.1♦ | M6x1.0 ISO | 0.50 | 2.15 | 10.71 | 11.47 | 10.30 | 1.09 | 7.51 | 6.22 | 7.51 |
| CFH2-610-3.6♦ | M6x1.0 ISO | 2.15 | 3.65 | 10.71 | 11.47 | 11.90 | 1.09 | 7.51 | 6.22 | 7.51 |
| CFH2-610-5.2♦ | M6x1.0 ISO | 3.65 | 5.20 | 10.71 | 11.47 | 13.48 | 1.09 | 7.51 | 6.22 | 7.51 |
| CFH2-8125-2.5♦ | M8x1.25 ISO | 0.50 | 2.55 | 14.69 | 15.45 | 15.86 | 1.57 | 10.08 | 10.35 | 10.08 |
| CFH2-8125-4.5♦ | M8x1.25 ISO | 2.50 | 4.55 | 14.69 | 15.45 | 17.84 | 1.57 | 10.08 | 10.35 | 10.08 |
| CFH2-8125-6.6♦ | M8x1.25 ISO | 4.55 | 6.60 | 14.69 | 15.45 | 19.82 | 1.57 | 10.08 | 10.35 | 10.08 |
| CFH2-1015-2.9♦ | M10x1.50 ISO | 0.75 | 2.95 | 17.10 | 17.86 | 15.88 | 1.57 | 11.89 | 13.08 | 11.89 |
| CFH2-1015-5.2♦ | M10x1.50 ISO | 2.95 | 5.20 | 17.10 | 17.86 | 18.24 | 1.57 | 11.89 | 13.08 | 11.89 |
| CFH2-1015-7.5♦ | M10x1.50 ISO | 5.20 | 7.50 | 17.10 | 17.86 | 20.62 | 1.57 | 11.89 | 13.08 | 11.89 |

CFHD UNIFIED THREAD (UNIT - INCHES)

| Part Number | Thread Size | Grip Range | | HD | | L ± .015 | HT Nom. | D (A/F) Max. | IL Ref. | Hole Size (A/F) +.010/- .000 |
|-----------------|-------------|------------|------|------|------|-------------|------------|-----------------|------------|---------------------------------|
| | | Min. | Max. | Min. | Max. | | | | | |
| CFHD2-2520-080♦ | 1/4-20 UNC | .020 | .080 | .454 | .484 | .500 | .058 | .312 | .340 | .312 |
| CFHD2-2520-150♦ | 1/4-20 UNC | .080 | .150 | .454 | .484 | .578 | .058 | .312 | .345 | .312 |
| CFHD2-3118-100♦ | 5/16-18 UNC | .020 | .100 | .579 | .609 | .625 | .062 | .397 | .405 | .397 |
| CFHD2-3118-180♦ | 5/16-18 UNC | .100 | .180 | .579 | .609 | .703 | .062 | .397 | .405 | .397 |
| CFHD2-3716-125♦ | 3/8-16 UNC | .020 | .125 | .673 | .703 | .703 | .088 | .468 | .450 | .468 |
| CFHD2-3716-230♦ | 3/8-16 UNC | .125 | .230 | .673 | .703 | .812 | .088 | .468 | .450 | .468 |

PART NUMBERING SYSTEM

CFH/CFHD Specifications

Material:
Steel 1008/1010
Stainless Steel 302
Aluminum 5056

RoHS Compliant Finishes:
Zinc Plated-Yellow Trivalent Chromate per Sherex SFS-01-001, SC2
Zinc Plated-Clear Trivalent Chromate per Sherex SFS-01-001

Part Number

Example: CFH2-2520-085

| | | | | | |
|----------------------|-------------|-------------|------------|----------------|-----------------|
| CFH | 2 | 2520 | 085 | (L) | T |
| Full Hex | Material | Thread Size | Grip Range | Empty-Open End | Clear Trivalent |
| Heavy Duty | 1-Stainless | | | B-Closed End | |
| Large Flange | Steel | | | | |
| CFHD - High Strength | 2-Steel | | | | |
| | 3-Aluminum | | | | |

Special finish or material available upon request

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

Sherex rivet nuts are compatible with the following hardware: **GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8**
Please contact Sherex when using other grade fasteners.

Sherex Fastening Solutions • 866-474-3739 • www.sherex.com • info@sherex.com



- The CFH series offers a full hexagonal body for exceptional spin out resistance.
- Inch body
- Inch and metric threads



- The CFHD series offers the same benefits as the CFH series but with higher strength.
- Inch body
- Inch threads

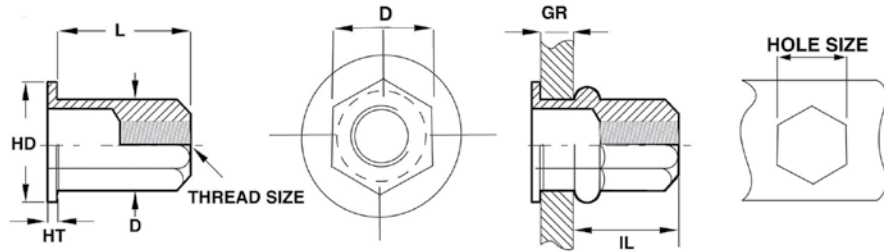


LRGH LARGE SIZE FULL HEX SERIES

LARGE SIZE FULL HEX SERIES



- The LRGH series has a large flange for increased performance
- Large diameters for heavy duty applications
- Inch body
- Inch and metric threads



LRGH SERIES - FULL HEX BODY UNIFIED THREAD (UNIT - INCHES)

| Part Number Inch - Steel | Thread Size | Grip Range | | L | HD | HT | D (A/F) | IL | Hole Size (A/F) |
|-----------------------------|-------------|------------|------|--------|--------|--------|---------|------|-----------------|
| | | Min. | Max. | ± .015 | ± .025 | ± .004 | Max. | Ref. | + .010/- .000 |
| LRGH2-5013-177 | 1/2-13 UNC | .040 | .177 | 1.181 | .959 | .085 | .656 | .866 | .656 |
| LRGH2-6211-200 | 5/8-11 UNC | .080 | .200 | 1.260 | 1.260 | .118 | .826 | .965 | .827 |

LRGH SERIES - FULL HEX METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Metric - Steel | Thread Size | Grip Range | | L | HD | HT | D (A/F) | IL | Hole Size (A/F) |
|-------------------------------|--------------|------------|------|-------|-------|-------|---------|-------|-----------------|
| | | Min. | Max. | ± .38 | ± .64 | ± .10 | Max. | Ref. | + .25/- .000 |
| LRGH2-12175-4.5 | M12x1.75 ISO | 1.00 | 4.50 | 30.00 | 24.36 | 2.16 | 16.65 | 22.00 | 16.66 |
| LRGH2-1620-5.0 | M16x2.0 ISO | 2.00 | 5.00 | 32.00 | 32.00 | 3.00 | 20.98 | 24.50 | 21.00 |

APPLICATION EXAMPLES



Utility Pole Attachments



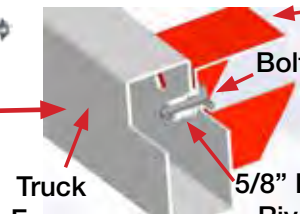
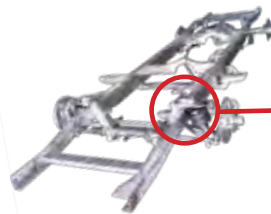
Utility Pole Hex Nut



3/4" Round STEP-NUT™

3/4" Step Bolt

Truck Frame Attachments



Truck Frame

Bracket

Bolt

5/8" Full Hex Rivet Nut

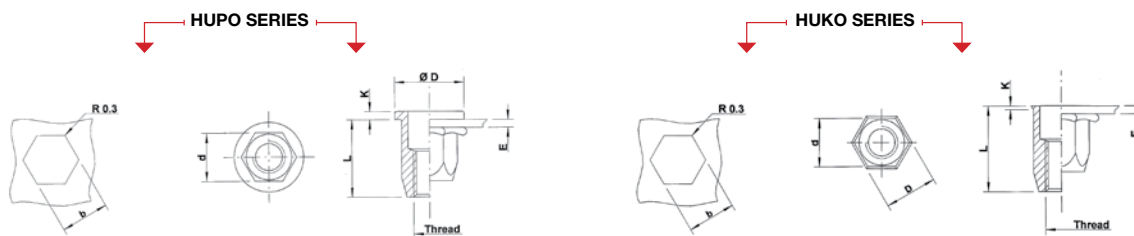
Material: Steel C1010/C1022

RoHS Compliant Finishes: Zinc plated – clear trivalent chromate per Sherex SFS-01-001

Sherex full hex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8
Please contact Sherex when using other grade fasteners.

*Mechanical lock feature is available on all Full Hex parts. Please contact Sherex for details.

HUPO LARGE FLANGE AND HUKO SMALL FLANGE HEX METRIC SERIES



**HUPO/
HUKO
SERIES**

HUPO METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Steel | Thread Size | Grip Range (E) | | L ± 0.35 | D ± 0.35 | K ± 0.15 | d (A/F) -0.02/-0.15 | Hole Size (b+0.1) |
|----------------------|--------------|----------------|------|-------------|-------------|-------------|------------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SM4HUPO20ZT | M4X0.7 ISO | 0.5 | 2.0 | 10.0 | 9.0 | 1.0 | 6.0 | 6.0 |
| TU-SM5HUPO30ZT | M5X0.8 ISO | 0.5 | 3.0 | 13.0 | 10.0 | 1.0 | 7.0 | 7.0 |
| TU-SM6HUPO30ZT | M6X1.0 ISO | 0.5 | 3.0 | 14.5 | 13.0 | 1.5 | 9.0 | 9.0 |
| TU-SM6HUPO55ZT | M6X1.0 ISO | 3.0 | 5.5 | 16.5 | | | | |
| TU-SM8HUPO30ZT | M8X1.25 ISO | 0.5 | 3.0 | 16.5 | 16.0 | 1.5 | 11.0 | 11.0 |
| TU-SM8HUPO55ZT | M8X1.25 ISO | 3.0 | 5.5 | 19.0 | | | | |
| TU-SM8HUPO80ZT | M8X1.25 ISO | 5.5 | 8.0 | 22.0 | | | | |
| TU-SM10HSPO35ZT | M10X1.5 ISO | 0.8 | 3.5 | 21.0 | 19.0 | 2.0 | 13.0 | 13.0 |
| TU-SM10HSPO60ZT | M10X1.5 ISO | 3.5 | 6.0 | 23.5 | | | | |
| TU-SM12HUPO40ZT | M12X1.75 ISO | 1.0 | 4.0 | 25.0 | 23.0 | 2.0 | 16.0 | 16.0 |

HUKO METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Steel | Thread Size | Grip Range (E) | | L ± 0.35 | D +0.3/-0.15 | K +0.3/-0.05 | d (A/F) -0.02/-0.15 | Hole Size (b+0.1) |
|----------------------|-------------|----------------|------|-------------|-----------------|-----------------|------------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SM4HUKO20ZT | M4X0.7 ISO | 0.5 | 2.0 | 11.0 | 6.6 | 0.6 | 6.0 | 6.0 |
| TU-SM5HUKO30ZT | M5X0.8 ISO | 0.5 | 3.0 | 14.0 | 7.7 | 0.6 | 7.0 | 7.0 |
| TU-SM5HUKO55ZT | M5X0.8 ISO | 3.0 | 5.5 | 16.5 | | | | |
| TU-SM6HUKO30ZT | M6X1.0 ISO | 0.5 | 3.0 | 16.0 | 9.8 | 0.7 | 9.0 | 9.0 |
| TU-SM6HUKO55ZT | M6X1.0 ISO | 3.0 | 5.5 | 18.5 | | | | |
| TU-SM8HUKO30ZT | M8X1.25 ISO | 0.5 | 3.0 | 18.0 | 11.8 | 0.7 | 11.0 | 11.0 |
| TU-SM8HUKO55ZT | M8X1.25 ISO | 3.0 | 5.5 | 20.5 | | | | |
| TU-SM10HUKO35ZT | M10X1.5 ISO | 0.8 | 3.5 | 23.0 | 13.8 | 0.7 | 13.0 | 13.0 |

PART NUMBERING SYSTEM

HUPO/HUKO Specifications Part Number

Example: TU-SM5HUPO30ZT

Material:

| | | | | | | | |
|------------------------|---------------|----------|-------------|--------------|--------------|------------|-----------------|
| Steel QST 34-3 | TU | S | M5 | HUP | O | 30 | ZT |
| Stainless Steel 304 Cu | Product Style | Material | Thread Size | Product Type | O-Open End | Grip Range | Zinktop (Clear) |
| Stainless Steel 316 Cu | Metric | S-Steel | | Large Flange | X-Closed End | | |

RoHs Compliant Finish:

Zinktop (Clear), 96 w / 480 r

Part Number

Example: TU-SM5HUKO30ZT

| | | | | | | |
|---------------|----------|-------------|--------------|--------------|------------|-----------------|
| TU | S | M5 | HUK | O | 30 | ZT |
| Product Style | Material | Thread Size | Product Type | O-Open End | Grip Range | Zinktop (Clear) |
| Metric | S-Steel | | Small Flange | X-Closed End | | |

SS-304 Stainless Steel

Special finish or material available upon request

All Stainless Steel parts are semi-hexagonal shank.

Flat Head
Hexagonal Shank
Metric Body
*Semi-Hexagonal Shank

Hexagonal Shank
Metric Body
Round Body
Hexagonal Shank
Metric Body



- The HUPO series has a large flange that provides increased strength.

- Metric body and metric threads



- The HUKO series has a smaller flange that gives a near flush installation into the parent material.

- Metric body and metric threads



Available with closed end and seal for protection from fluids and air (X Series).

Grip Range can be affected by parent material and hole size.

Sherex recommends trial installations to determine the proper grip range for the application.

Closed End sizes available: M4, M5, M6, M8. Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock.

Mating material holes must be smaller than flange diameter.

Contact Sherex for test data.

INSTALLATION TOOLING

HUPO/HUKO Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 37-43.

All Parts have been manufactured by DEJOND

TUBTARA® - A DEJOND PRODUCT

Sherex rivet nuts are compatible with the following hardware:
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.

CAH HALF HEX BODY LARGE FLANGE THIN WALL SERIES

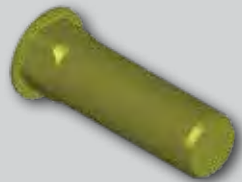
CAH SERIES



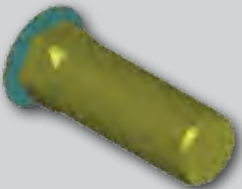
• The CAH series offers a semi hex body for excellent resistance to spin out in the hole.

• Inch body

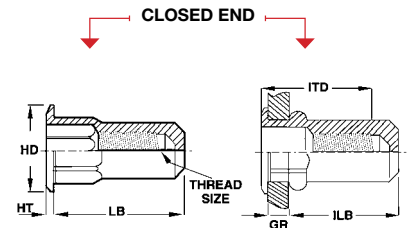
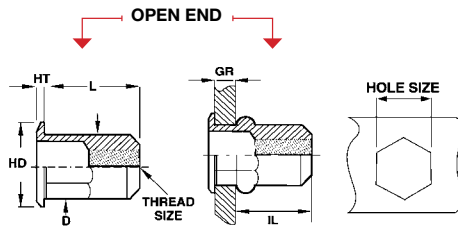
• Inch and metric threads



CLOSED END



SEALED HEAD



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .015 | HD ± .010 ± .025* | HT ± .003 | D (A/F) Max. | IL Max. | LB ± .015 | ILB Max. | ITD Ref. | Hole Size (A/F) + .004/- .000 |
|---------------------|-------------|------------|------|-------------|----------------------|--------------|-----------------|------------|--------------|-------------|-------------|----------------------------------|
| | | Min. | Max. | | | | | | | | | |
| CAH2-0632-080 | 6-32 UNC | .020 | .080 | .385 | .375 | .027 | .249 | .295 | .740 | .640 | .575 | .250 |
| CAH2-0632-130 | 6-32 UNC | .080 | .130 | .435 | .375 | .027 | .249 | .295 | .740 | .580 | .640 | .250 |
| CAH2-0832-080 | 8-32 UNC | .020 | .080 | .385 | .375 | .027 | .249 | .295 | .740 | .640 | .575 | .250 |
| CAH2-0832-130 | 8-32 UNC | .080 | .130 | .435 | .375 | .027 | .249 | .295 | .740 | .580 | .640 | .250 |
| CAH2-1024-130 | 10-24 UNC | .020 | .130 | .435 | .390 | .027 | .280 | .275 | 1.030 | .845 | .695 | .281 |
| CAH2-1024-225 | 10-24 UNC | .130 | .225 | .535 | .390 | .027 | .280 | .275 | 1.030 | .735 | .805 | .281 |
| CAH2-1032-130 | 10-32 UNF | .020 | .130 | .435 | .390 | .027 | .280 | .275 | 1.030 | .845 | .695 | .281 |
| CAH2-1032-225 | 10-32 UNF | .130 | .225 | .535 | .390 | .027 | .280 | .275 | 1.030 | .735 | .805 | .281 |
| CAH2-2520-165 | 1/4-20 UNC | .027 | .165 | .585 | .510 | .030 | .374 | .400 | 1.190 | 1.015 | .945 | .375 |
| CAH2-2520-260 | 1/4-20 UNC | .165 | .260 | .685 | .510 | .030 | .374 | .400 | 1.190 | .915 | 1.085 | .375 |
| CAH2-2528-165 | 1/4-28 UNF | .027 | .165 | .585 | .510 | .030 | .374 | .400 | 1.190 | 1.015 | .945 | .375 |
| CAH2-2528-260 | 1/4-28 UNF | .165 | .260 | .685 | .510 | .030 | .374 | .400 | 1.190 | .915 | 1.085 | .375 |
| CAH2-3118-150 | 5/16-18 UNC | .027 | .150 | .685 | .655* | .035 | .499 | .530 | 1.445 | 1.235 | 1.045 | .500 |
| CAH2-3118-312 | 5/16-18 UNC | .150 | .312 | .845 | .655* | .035 | .499 | .515 | 1.445 | 1.220 | 1.170 | .500 |
| CAH2-3124-150 | 5/16-24 UNF | .027 | .150 | .685 | .655* | .035 | .499 | .530 | 1.445 | 1.235 | 1.045 | .500 |
| CAH2-3124-312 | 5/16-24 UNF | .150 | .312 | .845 | .655* | .035 | .499 | .515 | 1.445 | 1.220 | 1.170 | .500 |
| CAH2-3716-150 | 3/8-16 UNC | .027 | .150 | .685 | .655* | .035 | .499 | .530 | 1.445 | 1.235 | 1.045 | .500 |
| CAH2-3716-312 | 3/8-16 UNC | .150 | .312 | .845 | .655* | .035 | .499 | .515 | 1.445 | 1.220 | 1.170 | .500 |
| CAH2-3724-150 | 3/8-24 UNF | .027 | .150 | .685 | .655* | .035 | .499 | .530 | 1.445 | 1.235 | 1.045 | .500 |
| CAH2-3724-312 | 3/8-24 UNF | .150 | .312 | .845 | .655* | .035 | .499 | .515 | 1.445 | 1.220 | 1.170 | .500 |

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .38 | HD ± .25 ± .64* | HT ± .08 | D (A/F) Max. | IL Max. | LB ± .38 | ILB Max. | ITD Ref. | Hole Size (A/F) + .10/- .000 |
|---------------------|-------------|------------|------|------------|--------------------|-------------|-----------------|------------|-------------|-------------|-------------|---------------------------------|
| | | Min. | Max. | | | | | | | | | |
| CAH2-470-2.0 | M4x0.7 ISO | 0.50 | 2.00 | 9.78 | 9.53 | 0.68 | 6.35 | 7.49 | 18.80 | 16.26 | 14.61 | 6.35 |
| CAH2-470-3.3 | M4x0.7 ISO | 2.00 | 3.30 | 11.05 | 9.53 | 0.68 | 6.35 | 7.49 | 18.80 | 14.73 | 16.26 | 6.35 |
| CAH2-580-3.3 | M5x0.8 ISO | 0.50 | 3.30 | 11.05 | 9.91 | 0.68 | 7.10 | 6.99 | 26.16 | 21.46 | 17.65 | 7.14 |
| CAH2-580-5.7 | M5x0.8 ISO | 3.30 | 5.70 | 13.59 | 9.91 | 0.68 | 7.10 | 6.99 | 26.16 | 18.67 | 20.45 | 7.14 |
| CAH2-610-4.2 | M6x1.0 ISO | 0.70 | 4.20 | 14.86 | 12.96 | 0.76 | 9.50 | 10.16 | 30.23 | 25.78 | 24.00 | 9.53 |
| CAH2-610-6.6 | M6x1.0 ISO | 4.20 | 6.60 | 17.40 | 12.96 | 0.76 | 9.50 | 10.16 | 30.23 | 23.24 | 27.56 | 9.53 |
| CAH2-8125-3.8 | M8x1.25 ISO | 0.70 | 3.80 | 17.40 | 16.64* | 0.89 | 12.70 | 13.46 | 36.70 | 31.37 | 26.54 | 12.70 |
| CAH2-8125-7.9 | M8x1.25 ISO | 3.80 | 7.90 | 21.46 | 16.64* | 0.89 | 12.70 | 13.08 | 36.70 | 30.99 | 29.72 | 12.70 |
| CAH2-1015-3.8 | M10x1.5 ISO | 0.70 | 3.80 | 17.40 | 16.64* | 0.89 | 12.70 | 13.46 | 36.70 | 31.37 | 26.54 | 12.70 |
| CAH2-1015-7.9 | M10x1.5 ISO | 3.80 | 7.90 | 21.46 | 16.64* | 0.89 | 12.70 | 13.08 | 36.70 | 30.99 | 29.72 | 12.70 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CAH Specifications

Material:

Steel 1008/1010
Stainless Steel 302*
Aluminum 5056

RoHS Compliant Finishes:

Zinc Plated-Yellow Trivalent Chromate per Sherex SFS-01-001, SC2
Zinc Plated-Clear Trivalent Chromate per Sherex SFS-01-001

Part Number

Example: CAH2-2520-165

| | | | | |
|------------------|-------------------|-------------|------------|-------------------|
| CAH | 2 | 2520 | 165 | () |
| Product Style | Material | Thread Size | Grip Range | Empty-Open End |
| Semi Hex | 1-Stainless Steel | | | B-Closed End |
| Thin Wall Series | 2-Steel | | | T-Clear Trivalent |
| | 3-Aluminum | | | |

Special finish or material available upon request

*Contact Sherex for exact product dimensions in Stainless Steel.

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Contact Sherex for details.

CAH style rivet nuts are available in sealed head and closed end designs. Other specials available upon request. Contact Sherex for test data.

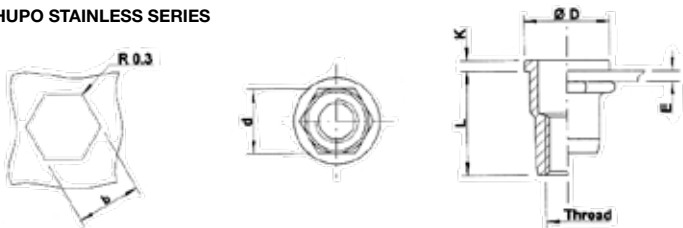
INSTALLATION TOOLING

CAH Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 37-43.

Sherex rivet nuts are compatible with the following hardware:
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8
Please contact Sherex when using other grade fasteners.

HUPO/HUKO HALF HEX BODY METRIC SERIES

HUPO STAINLESS SERIES



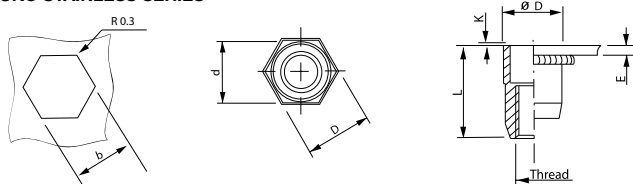
HUPO SERIES (UNIT - MILLIMETERS)

| Part Number (304 Stainless Steel) | Thread Size | Grip Range (E) | | L ± 0.35 | D ± 0.35/-0.15 | K ± 0.15/-0.05 | d (A/F) -0.02/-0.15 | Hole Size (b+0.1) |
|--------------------------------------|-------------|----------------|------|-------------|-------------------|-------------------|------------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SSM4HUPO20 | M4X0.7 ISO | 0.5 | 2.0 | 11.0 | 9.0 | 1.0 | 6.0 | 6.0 |
| TU-SSM5HUPO30 | M5X0.8 ISO | 0.5 | 3.0 | 11.5 | 10.0 | 1.0 | 7.0 | 7.0 |
| TU-SSM6HUPO30 | M6X1.0 ISO | 0.5 | 3.0 | 14.5 | 12.0 | 1.5 | 9.0 | 9.0 |
| TU-SSM6HUPO50 | M6X1.0 ISO | 3.0 | 5.5 | 16.5 | | | | |
| TU-SSM8HUPO30 | M8X1.25 ISO | 0.5 | 3.0 | 16.0 | 15.0 | 1.5 | 11.0 | 11.0 |
| TU-SSM8HUPO55 | M8X1.25 ISO | 3.0 | 5.5 | 18.5 | | | | |
| TU-SSM10HUPO35 | M10X1.5 ISO | 0.8 | 3.5 | 21.5 | | | | |

PART NUMBERING SYSTEM

| | | | | | | | | |
|-------------------------------|------------------------|--------------------------|-------------|-------------------------|--------------|------------|-----------------|---|
| HUPO Specifications | Part Number | | | | | | | |
| Material | Example: TU-SM5UPO30ZT | | | | | | | |
| Steel QST 34-3 | TU | S | M5 | UP | O | 30 | ZT | |
| Stainless Steel 304 Cu | Product Style | Material | Thread Size | Product Type | O-Open End | Grip Range | Zinktop (Clear) | |
| Stainless Steel 316 Cu | Metric | S-Steel | | Large Flange, Flat Head | X-Closed End | | | |
| Aluminum ALMG 2.5 | | A-Aluminum | | Metric Body | | | | |
| RoHs Compliant Finish: | | | | | | | | |
| Zinktop (Clear), 96 w / 480 r | | SS-304 Stainless Steel | | | | | | |
| | | *316-316 Stainless Steel | | | | | | Special finish or material available upon request |

HUKO STAINLESS SERIES



HUKO SERIES (UNIT - INCHES)

| Part Number (304 Stainless Steel) | Thread Size | Grip Range (E) | | L | D | K | Diameter-Inch d (A/F) | Diameter-Metric d (A/F) | Hole Size - Inch (b ^{+0.04}) (A/F) | Hole Size - Metric (b ^{+0.1}) (A/F) |
|--------------------------------------|-------------|----------------|-------|-------|-------|-------|--------------------------|----------------------------|---|--|
| | | Min. | Max. | | | | | | | |
| TU-SS1032HUKO30 | 10-32 UNF | 0.020 | 0.118 | 0.472 | 0.295 | 0.020 | 0.276 | 7.0 | 0.276 | 7.0 |
| TU-SS2520HUKO30 | 1/4-20 UNC | 0.020 | 0.118 | 0.571 | 0.374 | 0.020 | 0.354 | 9.0 | 0.354 | 9.0 |
| TU-SS3118HUKO30 | 5/16-18 UNC | 0.020 | 0.118 | 0.630 | 0.453 | 0.020 | 0.422 | 11.0 | 0.433 | 11.0 |

PART NUMBERING SYSTEM

| | | | | | | | | |
|----------------------------|--------------------------|--------------------------|-------------|-----------------|--------------|------------|------------|---|
| HUKO Specifications | Part Number | | | | | | | |
| Material | Example: TU-SS1032HUKO30 | | | | | | | |
| Steel QST 34-3 | TU | S | 1032 | HUK | O | 30 | 30 | |
| Stainless Steel 304 Cu | Product Style | Material | Thread Size | Product Type | O-Open End | Grip Range | Grip Range | |
| Stainless Steel 316 Cu | Metric | S-Steel | | Small Flange | X-Closed End | | | |
| | | A-Aluminum | | Hexagonal Shank | | | | |
| | | SS-304 Stainless Steel | | Inch Body | | | | |
| | | *316-316 Stainless Steel | | | | | | Special finish or material available upon request |

*316 Stainless Steel has extra corrosion resistance and can be used in the medical, chemical and food industries.

Grip range can be affected by parent material and hole size.
 Sherex recommends trial installations to determine the proper grip range for the application.
 Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock.
 Mating material holes must be smaller than flange diameter.

INSTALLATION TOOLING

HUPO/HUKO Series can be installed with our Hand Tools and Hydro-Pneumatic Tools.
 For additional tooling information see pages 37-43.

All Parts have been manufactured by: DEJOND

TUBTARA®- A DEJOND PRODUCT

Sherex Fastening Solutions • 866-474-3739 • www.sherex.com • info@sherex.com

**HUPO/
HUKO
HALF HEX
SERIES**

Tubtara®
BLIND RIVET NUTS



- The HUPO series offers a half hex body with a large flange that provides increased strength.
- Metric body and metric threads



- The HUKO series has a small flange for a near flush installation.
- Metric body
- Inch threads












Available with closed end and seal for protection from fluids and air (X Series).

SHEREX FASTENING SOLUTIONS®

ROUND BODY RIVET NUTS

ROUND BODY RIVET NUTS

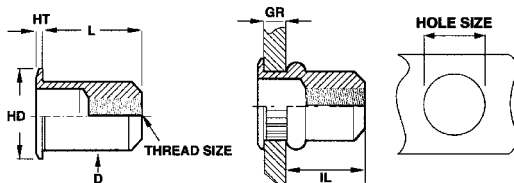
Sherex offers a comprehensive selection of round body rivet nuts designed to fit into Inch (Imperial) or Metric drilled or punched hole sizes.

| INCH BODY STYLE | | | | | | | | |
|--|--------|---------------|---------------|-------|-------------------------|-------------|-------------------------------|--|
| Product Line | Body | | Head (Flange) | | Heavy Duty (Thick Wall) | 360 Swaging | Large Sizes (up to 3/4", M20) | Floating Nut (for Off-center applications) |
| | Smooth | Knurled | Small | Large | | | | |
| CAO  | ✓ | | ✓ | | | | | |
| CA  | ✓ | | | ✓ | | | | |
| CAK  | | ✓ | ✓ | | | | | |
| CAL  | | ✓ | | ✓ | | | | |
| CFT/CAT  | | ✓ | ✓ | | ✓ | ✓ | | |
| CFW/CAW  | | Diamond Knurl | ✓ | | ✓ | ✓ | | |
| CPB/CPN*  | ✓ | | | ✓ | | | | |
| LRGR  | ✓ | | | ✓ | | | ✓ | |
| Riv-Float®  | | ✓ | ✓ | ✓ | | | | ✓ |

*Prebulbed, Slotted (CPN has straight shank)

| METRIC BODY STYLE | | | | | |
|---|--------|---------|---------------|-------|-------------|
| Product Line | Body | | Head (Flange) | | |
| | Smooth | Knurled | Small | Large | Countersunk |
| UPO Tubtara®  | ✓ | | | ✓ | |
| UFO Tubtara®  | ✓ | | | | ✓ |
| UKO Tubtara®  | ✓ | | ✓ | | |
| UPO RS Tubtara®  | | ✓ | | ✓ | |
| UFO RS Tubtara®  | | ✓ | | | ✓ |
| CLM  | | ✓ | | ✓ | |
| CKM  | | ✓ | ✓ | | |

CAO SMALL FLANGE SMOOTH BODY THIN WALL SERIES



**CAO
SERIES**



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .015 | HD ± .010 ± .015* | HT ± .003 | D Max. | IL Max. | Hole Size +.006/- .000 |
|------------------------|-------------|------------|------|-------------|----------------------|--------------|-----------|------------|---------------------------|
| | | Min. | Max. | | | | | | |
| CAO2-0632-080 | 6-32 UNC | .020 | .080 | .385 | .295 | .018 | .249 | .315 | .250 |
| CAO2-0832-080 | 8-32 UNC | .020 | .080 | .385 | .295 | .018 | .249 | .315 | .250 |
| CAO2-1024-130 | 10-24 UNC | .020 | .130 | .440 | .320 | .020 | .280 | .330 | .281 |
| CAO2-1032-130 | 10-32 UNF | .020 | .130 | .440 | .320 | .020 | .280 | .330 | .281 |
| CAO2-2520-165 | 1/4-20 UNC | .030 | .165 | .580 | .425 | .022 | .374 | .440 | .375 |
| CAO2-2528-165♦ | 1/4-28 UNF | .030 | .165 | .580 | .425 | .022 | .374 | .440 | .375 |
| CAO2-3118-200 | 5/16-18 UNC | .040 | .200 | .690 | .560* | .022 | .499 | .540 | .500 |
| CAO2-3124-200♦ | 5/16-24 UNF | .040 | .200 | .690 | .560* | .022 | .499 | .540 | .500 |
| CAO2-3716-200 | 3/8-16 UNC | .040 | .200 | .690 | .560* | .022 | .499 | .540 | .500 |
| CAO2-3724-200♦ | 3/8-24 UNF | .040 | .200 | .690 | .560* | .022 | .499 | .540 | .500 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

- The CAO series offers body diameters that will fit in common hole sizes.
- The small flange also allows for near flush installations.
- Inch body
- Inch and metric threads

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .38 | HD ± .25 ± .38* | HT ± .08 | D Max. | IL Max. | Hole Size +.15/- .000 |
|------------------------|-------------|------------|------|------------|--------------------|-------------|-----------|------------|--------------------------|
| | | Min. | Max. | | | | | | |
| CAO2-470-2.0 | M4x0.7 ISO | 0.50 | 2.00 | 9.78 | 7.49 | 0.46 | 6.32 | 8.00 | 6.40 |
| CAO2-580-3.3 | M5x0.8 ISO | 0.50 | 3.30 | 11.18 | 8.13 | 0.51 | 7.11 | 8.38 | 7.20 |
| CAO2-610-4.2 | M6x1.0 ISO | 0.76 | 4.20 | 14.73 | 10.80 | 0.56 | 9.50 | 11.18 | 9.60 |
| CAO2-8125-5.1 | M8x1.25 ISO | 1.02 | 5.10 | 17.53 | 14.22* | 0.56 | 12.67 | 13.72 | 12.70 |
| CAO2-1015-5.1 | M10x1.5 ISO | 1.02 | 5.10 | 17.53 | 14.22* | 0.56 | 12.67 | 13.72 | 12.70 |



CLOSED END

PART NUMBERING SYSTEM

CAO Specifications

Material:
Steel 1008/1010
Aluminum 5056

RoHS Compliant Finishes:

Inch: Zinc Plated-Clear Trivalent Chromate
per Sherex SFS-01-001

Metric: Zinc Plated-Yellow Trivalent Chromate
per Sherex SFS-01-001, SC2

Part Number

Example: CAO2-2520-165

| | | | | |
|------------------|------------|-------------|------------|-------------------|
| CAO | 2 | 2520 | 165 | () |
| Product Style | Material | Thread Size | Grip Range | Empty-Open End |
| Low Profile | 2-Steel | | | B-Closed End |
| Smooth Shank | 3-Aluminum | | | T-Clear Trivalent |
| Thin Wall Series | | | | |

Special finish or material available upon request

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application.
Mating material holes must be smaller than flange diameter.
Contact Sherex for details.
Contact Sherex for test data.

INSTALLATION TOOLING

CAO Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools.
For additional tooling information see pages 37-43.

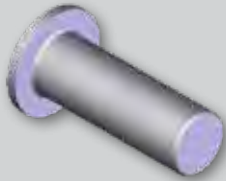
Sherex rivet nuts are compatible with the following hardware:
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8
Please contact Sherex when using other grade fasteners.

CA HEAVY DUTY RIVET NUT FLAT HEAD SERIES

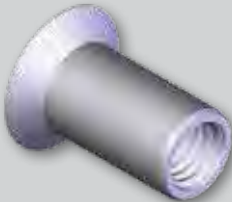
CA SERIES



- The CA series offers a thick head and thick collapse chamber wall thickness for heavy duty applications.
- Inch body and inch threads



CLOSED END

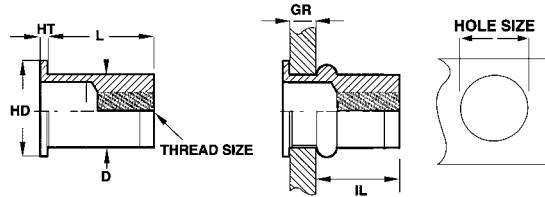


COUNTERSUNK HEAD



KEYED HEAD

Sherex manufactures NAS 1329 and NAS 1330 style Rivet Nuts. See pages 26-29 for details.



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .015 | HD ± .015 | HT Nom. | D +.000/- .004 | IL Ref. | Hole Size |
|------------------------|-------------|------------|------|-------------|--------------|------------|-------------------|------------|-----------|
| | | Min. | Max. | | | | | | |
| CA-0440S-060♦ | 4-40 UNC | .010 | .060 | .345 | .270 | .025 | .155 | .230 | .155-.157 |
| CA-0440S-085♦ | 4-40 UNC | .060 | .085 | .370 | .270 | .025 | .155 | .230 | .155-.157 |
| CA-0440S-110♦ | 4-40 UNC | .085 | .100 | .400 | .270 | .025 | .155 | .230 | .155-.157 |
| CA-0632S-075♦ | 6-32 UNC | .010 | .075 | .438 | .325 | .032 | .189 | .300 | .189-.193 |
| CA-0632S-120 | 6-32 UNC | .075 | .120 | .500 | .325 | .032 | .189 | .315 | .189-.193 |
| CA-0632S-160♦ | 6-32 UNC | .120 | .160 | .500 | .325 | .032 | .189 | .270 | .189-.193 |
| CA-0832S-075 | 8-32 UNC | .010 | .075 | .438 | .357 | .032 | .221 | .300 | .221-.226 |
| CA-0832S-120 | 8-32 UNC | .075 | .120 | .500 | .357 | .032 | .221 | .315 | .221-.226 |
| CA-0832S-160♦ | 8-32 UNC | .120 | .160 | .500 | .357 | .032 | .221 | .270 | .221-.226 |
| CA-1024S-080♦ | 10-24 UNC | .010 | .080 | .531 | .406 | .038 | .250 | .380 | .250-.256 |
| CA-1024S-130♦ | 10-24 UNC | .080 | .130 | .594 | .406 | .038 | .250 | .390 | .250-.256 |
| CA-1024S-180♦ | 10-24 UNC | .130 | .180 | .641 | .406 | .038 | .250 | .390 | .250-.256 |
| CA-1032S-080 | 10-32 UNF | .010 | .080 | .531 | .406 | .038 | .250 | .380 | .250-.256 |
| CA-1032S-130 | 10-32 UNF | .080 | .130 | .594 | .406 | .038 | .250 | .390 | .250-.256 |
| CA-1032S-180♦ | 10-32 UNF | .130 | .180 | .641 | .406 | .038 | .250 | .390 | .250-.256 |
| CA-2520S-080 | 1/4-20 UNC | .020 | .080 | .625 | .475 | .058 | .332 | .450 | .332-.338 |
| CA-2520S-140♦ | 1/4-20 UNC | .080 | .140 | .687 | .475 | .058 | .332 | .450 | .332-.338 |
| CA-2520S-200 | 1/4-20 UNC | .140 | .200 | .750 | .475 | .058 | .332 | .450 | .332-.338 |
| CA-3118S-125 | 5/16-18 UNC | .030 | .125 | .750 | .665 | .062 | .413 | .505 | .413-.423 |
| CA-3118S-200 | 5/16-18 UNC | .125 | .200 | .875 | .665 | .062 | .413 | .555 | .413-.423 |
| CA-3118S-275♦ | 5/16-18 UNC | .200 | .275 | .937 | .665 | .062 | .413 | .540 | .413-.423 |
| CA-3716S-115 | 3/8-16 UNC | .030 | .115 | .844 | .781 | .088 | .490 | .585 | .490-.500 |
| CA-3716S-200 | 3/8-16 UNC | .115 | .200 | .938 | .781 | .088 | .490 | .595 | .490-.500 |
| CA-3716S-285♦ | 3/8-16 UNC | .200 | .285 | 1.031 | .781 | .088 | .490 | .605 | .490-.500 |
| CA-5013S-150 | 1/2-13 UNC | .050 | .150 | .906 | .906 | .085 | .625 | .605 | .625-.635 |
| CA-5013S-250♦ | 1/2-13 UNC | .150 | .250 | 1.031 | .906 | .085 | .625 | .630 | .625-.635 |
| CA-5013S-350♦ | 1/2-13 UNC | .250 | .350 | 1.141 | .906 | .085 | .625 | .640 | .625-.635 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CA Specifications

Material:
Steel 1008/1010/1110
Non-Magnetic Stainless Steel 302
Stainless Steel 430
Aluminum 5056/6053

RoHS Compliant Finish:

Zinc Plated-Clear Trivalent Chromate
per Sherex SFS-01-001

Part Number

Example: CA-2520S-080

| | | | | |
|---------------|-------------|---------------------------|-------------------|------------|
| CA | 2520 | Material | () | 080 |
| Product Style | Thread Size | S-Steel | Empty-Open End | Grip Range |
| Heavy Duty | | A-Aluminum | B-Closed End | |
| Large Flange | | SS-Stainless Steel 430 | T-Clear Trivalent | |
| Smooth Shank | | NM-Stainless Steel 302 | K-Keyed Head | |
| | | NM318-Stainless Steel 316 | | |

Special finish or material available upon request

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Contact Sherex for details.

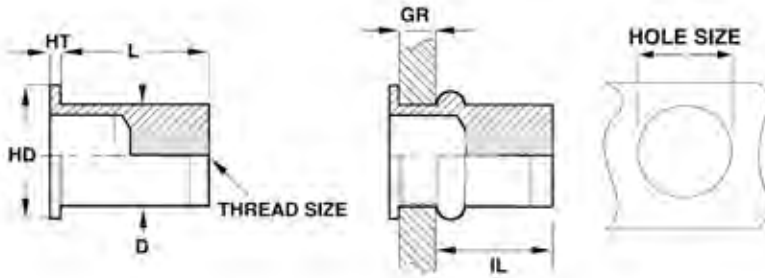
CA style rivet nuts are available in closed end, keyed, and countersunk head designs. Other specials available upon request. Contact Sherex for test data.

INSTALLATION TOOLING

CA Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 37-43.

Sherex rivet nuts are compatible with the following hardware:
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8
Please contact Sherex when using other grade fasteners.

LRGR LARGE SIZE ROUND SERIES



LARGE SIZE ROUND SERIES



- The LRGR series has a large flange for increased performance
- Large diameter for heavy duty applications
- Inch body
- Inch and metric threads

LRGR SERIES - ROUND BODY UNIFIED THREAD (UNIT - INCHES)

| Part Number Inch - Steel | Thread Size | Grip Range | | L | HD | HT | D | IL | Hole Size |
|-----------------------------|-------------|------------|------|--------|--------|--------|------|-------|---------------|
| | | Min. | Max. | ± .015 | ± .025 | ± .004 | Max. | Ref. | + .010/- .000 |
| LRGR2-5013-150 | 1/2-13 UNC | .050 | .150 | 1.260 | .945 | .085 | .656 | .984 | .656 |
| LRGR2-6211-200 | 5/8-11 UNC | .080 | .200 | 1.428 | 1.181 | .098 | .826 | 1.142 | .827 |
| LRGR2-7510-250* | 3/4-10 UNC | .048 | .250 | 1.210 | 1.235 | .118 | .906 | .878 | .907 |

LRGR SERIES - ROUND BODY METRIC THREAD (UNIT-MILLIMETERS)

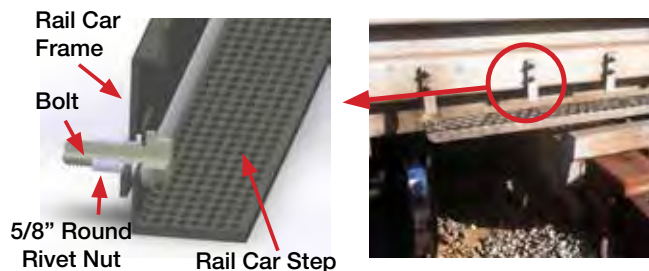
| Part Number Metric - Steel | Thread Size | Grip Range | | L | HD | HT | D | IL | Hole Size |
|-------------------------------|--------------|------------|------|-------|-------|-------|-------|-------|--------------|
| | | Min. | Max. | ± .38 | ± .64 | ± .10 | Max. | Ref. | + .25/- .000 |
| LRGR2-12175-3.8 | M12x1.75 ISO | 1.27 | 3.80 | 32.00 | 24.00 | 2.16 | 16.65 | 25.00 | 16.66 |
| LRGR2-1620-5.0* | M16x2.0 ISO | 2.00 | 5.00 | 36.27 | 30.00 | 2.50 | 20.98 | 29.00 | 21.00 |

APPLICATION EXAMPLES

Vending Machine Leg Leveler



Railcar Attachments



Material: Steel C1010/C1022

RoHS Compliant Finishes: Zinc plated – clear trivalent chromate per Sherex SFS-01-001

Sherex full hex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.

*Mechanical lock feature is available on all Full Hex parts.

Please contact Sherex for details.

CPB PREBULBED SLOTTED BODY SERIES

CPB SERIES



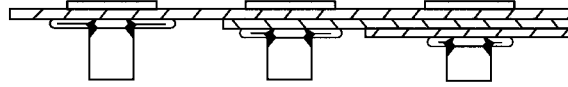
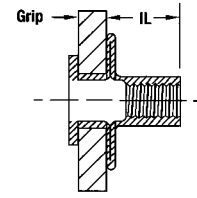
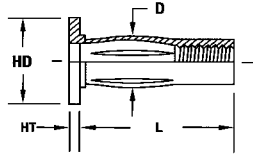
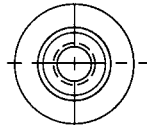
- The CPB series offers a large grip range for installation into single, variable or multiple thickness materials.

- Large backside footprint provides increased pull out resistance.

- Designed to be installed in thin plastics without distorting the base material.

- Inch body

- Inch and metric threads



Installs into single, variable, or multiple thickness materials.

UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Grip Range | | HD | | L ±.015 | HT ±.005 | D Max. | IL Ref. | Hole Size +.006/- .000 |
|------------------------|-------------|------------|------|------|------|------------|-------------|-----------|------------|---------------------------|
| | | Min. | Max. | Min. | Max. | | | | | |
| CPB2-1024-175♦ | 10-24 UNC | .020 | .175 | .490 | .510 | .828 | .038 | .329 | .410 | .336 |
| CPB2-1024-320♦ | 10-24 UNC | .175 | .320 | .490 | .510 | .921 | .038 | .329 | .410 | .336 |
| CPB2-1032-175 | 10-32 UNF | .020 | .175 | .490 | .510 | .828 | .038 | .329 | .410 | .336 |
| CPB2-1032-320 | 10-32 UNF | .175 | .320 | .490 | .510 | .921 | .038 | .329 | .410 | .336 |
| CPB2-2520-280 | 1/4-20 UNC | .020 | .280 | .610 | .645 | 1.000 | .059 | .382 | .505 | .390 |
| CPB2-2520-500 | 1/4-20 UNC | .280 | .500 | .610 | .645 | 1.234 | .059 | .382 | .505 | .390 |
| CPB2-3118-280 | 5/16-18 UNC | .020 | .280 | .740 | .770 | 1.141 | .062 | .495 | .570 | .500 |
| CPB2-3118-500 | 5/16-18 UNC | .280 | .500 | .740 | .770 | 1.375 | .062 | .495 | .570 | .500 |

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Grip Range | | HD | | L ±0.38 | HT ±0.13 | D Max. | IL Ref. | Hole Size +.15/- .000 |
|------------------------|-------------|------------|-------|-------|-------|------------|-------------|-----------|------------|--------------------------|
| | | Min. | Max. | Min. | Max. | | | | | |
| CPB2-580-4.45♦ | M5x0.8 ISO | 0.50 | 4.45 | 12.45 | 12.95 | 21.03 | 0.96 | 8.35 | 10.00 | 8.55 |
| CPB2-580-8.1 | M5x0.8 ISO | 4.45 | 8.10 | 12.45 | 12.95 | 23.80 | 0.96 | 8.35 | 10.00 | 8.55 |
| CPB2-610-7.1 | M6x1.0 ISO | 0.50 | 7.10 | 15.50 | 16.38 | 25.40 | 1.50 | 9.70 | 12.80 | 10.00 |
| CPB2-610-12.7♦ | M6x1.0 ISO | 7.10 | 12.70 | 15.50 | 16.38 | 31.32 | 1.50 | 9.70 | 12.80 | 10.00 |
| CPB2-8125-7.1 | M8x1.25 ISO | 0.50 | 7.10 | 18.80 | 19.65 | 28.95 | 1.57 | 12.57 | 14.48 | 12.70 |
| CPB2-8125-12.7♦ | M8x1.25 ISO | 7.10 | 12.70 | 18.80 | 19.65 | 34.90 | 1.57 | 12.57 | 14.48 | 12.70 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CPB Specifications

Material:

Steel 1008/1010

Aluminum 6061

RoHS Compliant Finishes:

Zinc Plated-Yellow Trivalent Chromate per Sherex SFS-01-001, SC2

Zinc Plated-Clear Trivalent Chromate per Sherex SFS-01-001

Part Number

Example: CPB2-2520-280

| | | | | |
|---------------|------------|-------------|------------|-------------------|
| CPB | 2 | 2520 | 280 | () |
| Product Style | 2-Steel | Thread Size | Grip Range | Empty-Open End |
| Slotted Body | 3-Aluminum | | | T-Clear Trivalent |
| Pre-bulbed | | | | W-Wedge Head |
| | | | | TR-Trim Head |

Special finish or material available upon request

Grip range can be affected by parent material and hole size.
Sherex recommends trials installations to determine the proper grip range for the application.
Contact Sherex for details.
Contact Sherex for test data.

INSTALLATION TOOLING

CPB Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools.
For additional tooling information see pages 37-43.

Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.

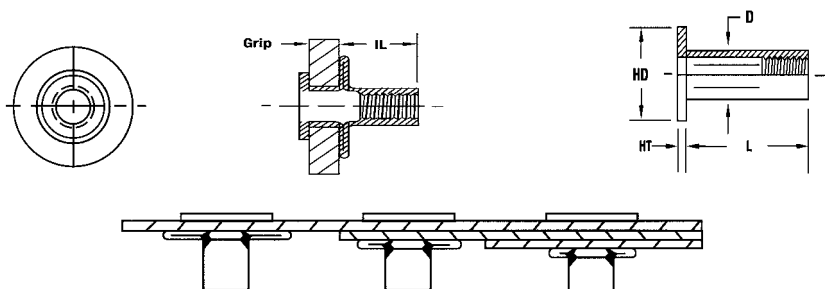


WEDGE HEAD



TRIM HEAD

CPN STRAIGHT SHANK SLOTTED BODY SERIES



Installs into single, variable, or multiple thickness materials.

CPN SERIES



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Grip Range | | HD | | L | HT | D | IL | Hole Size |
|------------------------|-------------|------------|------|------|------|--------|--------|------|------|---------------|
| | | Min. | Max. | Min. | Max. | ± .015 | ± .005 | Max. | Ref. | + .006/- .000 |
| CPN2-1024-175♦ | 10-24 UNC | .020 | .175 | .490 | .510 | .781 | .038 | .272 | .425 | .273 |
| CPN2-1024-320♦ | 10-24 UNC | .175 | .320 | .490 | .510 | .921 | .038 | .272 | .425 | .273 |
| CPN2-1032-175♦ | 10-32 UNF | .020 | .175 | .490 | .510 | .781 | .038 | .272 | .425 | .273 |
| CPN2-1032-320♦ | 10-32 UNF | .175 | .320 | .490 | .510 | .921 | .038 | .272 | .425 | .273 |
| CPN2-2520-280 | 1/4-20 UNC | .020 | .280 | .610 | .645 | 1.000 | .059 | .346 | .505 | .347 |
| CPN2-2520-500♦ | 1/4-20 UNC | .280 | .500 | .610 | .645 | 1.234 | .059 | .346 | .505 | .347 |
| CPN2-3118-280♦ | 5/16-18 UNC | .020 | .280 | .740 | .770 | 1.141 | .062 | .437 | .570 | .438 |
| CPN2-3118-500♦ | 5/16-18 UNC | .280 | .500 | .740 | .770 | 1.375 | .062 | .437 | .570 | .438 |

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Grip Range | | HD | | L | HT | D | IL | Hole Size |
|------------------------|-------------|------------|-------|-------|-------|--------|-------|-------|-------|--------------|
| | | Min. | Max. | Min. | Max. | ± 0.38 | ± .13 | Max. | Ref. | + .15/- 0.00 |
| CPN2-580-4.45♦ | M5x0.8 ISO | 0.50 | 4.45 | 12.45 | 12.95 | 21.03 | 0.96 | 7.47 | 9.90 | 7.48 |
| CPN2-580-8.1♦ | M5x0.8 ISO | 4.45 | 8.10 | 12.45 | 12.95 | 23.80 | 0.96 | 7.47 | 9.90 | 7.48 |
| CPN2-610-7.1♦ | M6x1.0 ISO | 0.50 | 7.10 | 15.50 | 16.38 | 25.40 | 1.50 | 8.79 | 12.80 | 8.80 |
| CPN2-610-12.7♦ | M6x1.0 ISO | 7.10 | 12.70 | 15.50 | 16.38 | 31.32 | 1.50 | 8.79 | 12.80 | 8.80 |
| CPN2-8125-7.1♦ | M8x1.25 ISO | 0.50 | 7.10 | 18.80 | 19.65 | 28.95 | 1.57 | 11.10 | 14.48 | 11.11 |
| CPN2-8125-12.7♦ | M8x1.25 ISO | 7.10 | 12.70 | 18.80 | 19.65 | 34.90 | 1.57 | 11.10 | 14.48 | 11.11 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CPN Specifications

Material:

Steel 1008/1010

Aluminum 6061

RoHS Compliant Finishes:

Zinc Plated-Yellow Trivalent Chromate per Sherex SFS-01-001, SC2

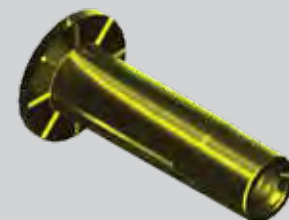
Zinc Plated-Clear Trivalent Chromate per Sherex SFS-01-001

Part Number

Example: CPN2-2520-280

| | | | | |
|----------------|------------|-------------|------------|-------------------|
| CPN | 2 | 2520 | 280 | () |
| Product Style | 2-Steel | Thread Size | Grip Range | Empty-Open End |
| Slotted Body | 3-Aluminum | | | T-Clear Trivalent |
| Straight Shank | | | | W-Wedge Head |

Special finish or material available upon request



WEDGE HEAD

Grip range can be affected by parent material and hole size.
 Sherex recommends trials installations to determine the proper grip range for the application.
 Contact Sherex for details.
 Contact Sherex for test data.

CPN Series must be installed with spin pull tooling.
 For more information see pages 37-43.

Sherex rivet nuts are compatible with the following hardware:
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8
 Please contact Sherex when using other grade fasteners.

CAK SMALL FLANGE KNURLED BODY THIN WALL SERIES

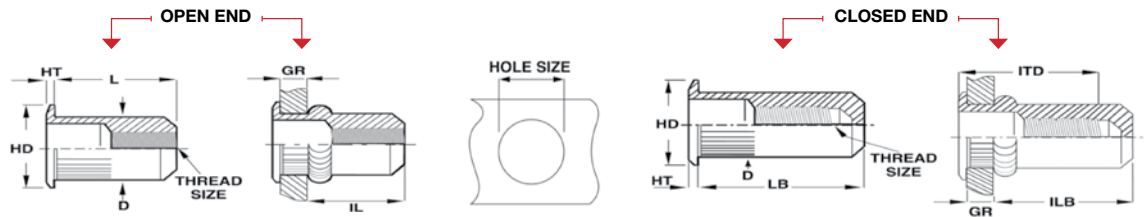
CAK SERIES



- The CAK series has a small flange for a near flush installation.
- Knurled body provides a higher resistance to spin out when installed in soft materials.
- Inch body
- Inch and metric threads



CLOSED END



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .015 | HD ± .010 ± .015* | HT ± .002 | D Max. | IL Max. | LB ± .015 | ILB Max. | ITD Ref. | Hole Size +.006/-.000 |
|------------------------|-------------|------------|------|-------------|----------------------|--------------|-----------|------------|--------------|-------------|-------------|--------------------------|
| | | Min. | Max. | | | | | | | | | |
| CAK2-0632-080 | 6-32 UNC | .020 | .080 | .420 | .310 | .019 | .265 | .305 | .740 | .640 | .610 | .266 |
| CAK2-0632-130 | 6-32 UNC | .080 | .130 | .470 | .310 | .019 | .265 | .305 | .740 | .580 | .670 | .266 |
| CAK2-0832-080 | 8-32 UNC | .020 | .080 | .420 | .310 | .019 | .265 | .305 | .740 | .640 | .610 | .266 |
| CAK2-0832-130 | 8-32 UNC | .080 | .130 | .470 | .310 | .019 | .265 | .305 | .740 | .580 | .670 | .266 |
| CAK2-1024-130 | 10-24 UNC | .020 | .130 | .475 | .340 | .019 | .296 | .315 | .990 | .845 | .730 | .297 |
| CAK2-1024-225 | 10-24 UNC | .130 | .225 | .585 | .340 | .019 | .296 | .315 | .990 | .735 | .840 | .297 |
| CAK2-1032-130 | 10-32 UNF | .020 | .130 | .475 | .340 | .019 | .296 | .315 | .990 | .845 | .730 | .297 |
| CAK2-1032-225 | 10-32 UNF | .130 | .225 | .585 | .340 | .019 | .296 | .315 | .990 | .735 | .840 | .297 |
| CAK2-2520-165 | 1/4-20 UNC | .027 | .165 | .580 | .455 | .022 | .390 | .380 | 1.190 | 1.005 | .895 | .391 |
| CAK2-2520-260 | 1/4-20 UNC | .165 | .260 | .680 | .455 | .022 | .390 | .380 | 1.190 | .905 | 1.035 | .391 |
| CAK2-2528-165 | 1/4-28 UNF | .027 | .165 | .580 | .455 | .022 | .390 | .380 | 1.190 | 1.005 | .895 | .391 |
| CAK2-2528-260 | 1/4-28 UNF | .165 | .260 | .680 | .455 | .022 | .390 | .380 | 1.190 | .905 | 1.035 | .391 |
| CAK2-3118-150 | 5/16-18 UNC | .027 | .150 | .690 | .595* | .022 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAK2-3118-312 | 5/16-18 UNC | .150 | .312 | .805 | .595* | .022 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |
| CAK2-3124-150 | 5/16-24 UNF | .027 | .150 | .690 | .595* | .022 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAK2-3124-312 | 5/16-24 UNF | .150 | .312 | .805 | .595* | .022 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |
| CAK2-3716-150 | 3/8-16 UNC | .027 | .150 | .690 | .595* | .022 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAK2-3716-312 | 3/8-16 UNC | .150 | .312 | .805 | .595* | .022 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |
| CAK2-3724-150 | 3/8-24 UNF | .027 | .150 | .690 | .595* | .022 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAK2-3724-312 | 3/8-24 UNF | .150 | .312 | .805 | .595* | .022 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .38 | HD ± .25 ± .38* | HT ± .05 | D Max. | IL Max. | LB ± .38 | ILB Max. | ITD Ref. | Hole Size +.15/- .000 |
|------------------------|-------------|------------|------|------------|--------------------|-------------|-----------|------------|-------------|-------------|-------------|--------------------------|
| | | Min. | Max. | | | | | | | | | |
| CAK2-470-2.0 | M4x0.7 ISO | 0.50 | 2.00 | 10.67 | 7.87 | 0.48 | 6.73 | 7.75 | 18.80 | 16.26 | 15.49 | 6.75 |
| CAK2-470-3.3 | M4x0.7 ISO | 2.00 | 3.30 | 11.94 | 7.87 | 0.48 | 6.73 | 7.75 | 18.80 | 14.73 | 17.02 | 6.75 |
| CAK2-580-3.3 | M5x0.8 ISO | 0.50 | 3.30 | 12.07 | 8.64 | 0.48 | 7.52 | 8.00 | 25.15 | 21.46 | 18.54 | 7.60 |
| CAK2-580-5.7 | M5x0.8 ISO | 3.30 | 5.70 | 14.86 | 8.64 | 0.48 | 7.52 | 8.00 | 25.15 | 18.67 | 21.34 | 7.60 |
| CAK2-610-4.2 | M6x1.0 ISO | 0.70 | 4.20 | 14.73 | 11.56 | 0.55 | 9.91 | 9.65 | 30.23 | 25.53 | 22.73 | 10.00 |
| CAK2-610-6.6 | M6x1.0 ISO | 4.20 | 6.60 | 17.27 | 11.56 | 0.55 | 9.91 | 9.65 | 30.23 | 22.99 | 26.29 | 10.00 |
| CAK2-8125-3.8 | M8x1.25 ISO | 0.70 | 3.80 | 17.53 | 15.11* | 0.55 | 13.46 | 11.94 | 35.31 | 29.85 | 25.27 | 13.50 |
| CAK2-8125-7.9 | M8x1.25 ISO | 3.80 | 7.90 | 20.45 | 15.11* | 0.55 | 13.46 | 10.80 | 35.31 | 26.04 | 28.45 | 13.50 |
| CAK2-1015-3.8 | M10x1.5 ISO | 0.70 | 3.80 | 17.53 | 15.11* | 0.55 | 13.46 | 11.94 | 35.31 | 29.85 | 25.27 | 13.50 |
| CAK2-1015-7.9 | M10x1.5 ISO | 3.80 | 7.90 | 20.45 | 15.11* | 0.55 | 13.46 | 10.80 | 35.31 | 26.04 | 28.45 | 13.50 |

◆ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CAK Specifications

Material:

Steel 1008/1010
Stainless Steel 302*
Aluminum 5056

RoHS Compliant Finishes:

Zinc Plated-Yellow Trivalent Chromate
per Sherex SFS-01-001, SC2
Zinc Plated-Clear Trivalent Chromate
per Sherex SFS-01-001

Part Number

Example: CAK2-2520-165

| | | | | |
|------------------|-------------------|-------------|------------|-------------------|
| CAK | 2 | 2520 | 165 | () |
| Product Style | Material | Thread Size | Grip Range | Empty-Open End |
| Small Flange | 1-Stainless Steel | | | B-Closed End |
| Knurled Body | 2-Steel | | | T-Clear Trivalent |
| Thin Wall Series | 3-Aluminum | | | |

Special finish or material available upon request

*Contact Sherex for exact product dimensions in Stainless Steel.

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application.
Contact Sherex for details.

CAK style rivet nuts are available in closed end designs. Other specials available upon request.

Contact Sherex for test data.

Mating material holes must be smaller than flange diameter.

INSTALLATION TOOLING

CAK Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools.
For additional tooling information see pages 37-43.

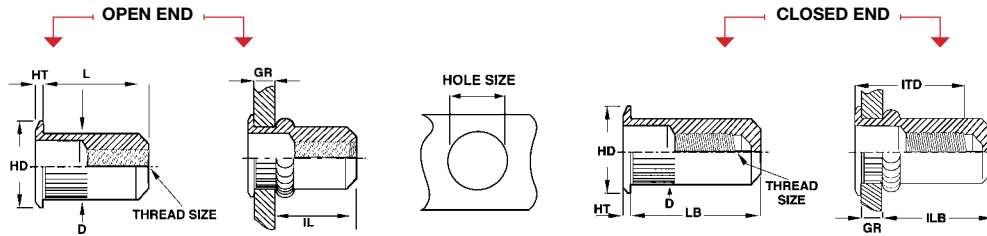
Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.

Sherex Fastening Solutions • 866-474-3739 • www.sherex.com • info@sherex.com

CAL LARGE FLANGE KNURLED BODY THIN WALL SERIES



CAL SERIES



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .015 | HD ±.010 ±.025* | HT ± .003 | D Max. | IL Max. | LB ± .015 | ILB Max. | ITD Ref. | Hole Size +.006/-.000 |
|------------------------|-------------|------------|------|-------------|--------------------|--------------|-----------|------------|--------------|-------------|-------------|--------------------------|
| | | Min. | Max. | | | | | | | | | |
| CAL2-0632-080 | 6-32 UNC | .020 | .080 | .420 | .390 | .030 | .265 | .305 | .740 | .640 | .610 | .266 |
| CAL2-0632-130 | 6-32 UNC | .080 | .130 | .470 | .390 | .030 | .265 | .305 | .740 | .580 | .670 | .266 |
| CAL2-0832-080 | 8-32 UNC | .020 | .080 | .420 | .390 | .030 | .265 | .305 | .740 | .640 | .610 | .266 |
| CAL2-0832-130 | 8-32 UNC | .080 | .130 | .470 | .390 | .030 | .265 | .305 | .740 | .580 | .670 | .266 |
| CAL2-1024-130 | 10-24 UNC | .020 | .130 | .475 | .415 | .030 | .296 | .315 | .990 | .845 | .730 | .297 |
| CAL2-1024-225 | 10-24 UNC | .130 | .225 | .585 | .415 | .030 | .296 | .315 | .990 | .735 | .840 | .297 |
| CAL2-1032-130 | 10-32 UNF | .020 | .130 | .475 | .415 | .030 | .296 | .315 | .990 | .845 | .730 | .297 |
| CAL2-1032-225 | 10-32 UNF | .130 | .225 | .585 | .415 | .030 | .296 | .315 | .990 | .735 | .840 | .297 |
| CAL2-2520-165 | 1/4-20 UNC | .027 | .165 | .580 | .500 | .030 | .390 | .380 | 1.190 | 1.005 | .895 | .391 |
| CAL2-2520-260 | 1/4-20 UNC | .165 | .260 | .680 | .500 | .030 | .390 | .380 | 1.190 | .905 | 1.035 | .391 |
| CAL2-2528-165 | 1/4-28 UNF | .027 | .165 | .580 | .500 | .030 | .390 | .380 | 1.190 | 1.005 | .895 | .391 |
| CAL2-2528-260 | 1/4-28 UNF | .165 | .260 | .680 | .500 | .030 | .390 | .380 | 1.190 | .905 | 1.035 | .391 |
| CAL2-3118-150 | 5/16-18 UNC | .027 | .150 | .690 | .685* | .035 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAL2-3118-312 | 5/16-18 UNC | .150 | .312 | .805 | .685* | .035 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |
| CAL2-3124-150 | 5/16-24 UNF | .027 | .150 | .690 | .685* | .035 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAL2-3124-312 | 5/16-24 UNF | .150 | .312 | .805 | .685* | .035 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |
| CAL2-3716-150 | 3/8-16 UNC | .027 | .150 | .690 | .685* | .035 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAL2-3716-312 | 3/8-16 UNC | .150 | .312 | .805 | .685* | .035 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |
| CAL2-3724-150 | 3/8-24 UNF | .027 | .150 | .690 | .685* | .035 | .530 | .470 | 1.390 | 1.175 | .995 | .531 |
| CAL2-3724-312 | 3/8-24 UNF | .150 | .312 | .805 | .685* | .035 | .530 | .425 | 1.390 | 1.025 | 1.120 | .531 |
| CAL2-5013-200 | 1/2-13 UNC | .063 | .200 | 1.150 | .865* | .047 | .685 | .850 | 2.365 | 2.070 | 1.505 | .688 |
| CAL2-5013-350 | 1/2-13 UNC | .200 | .350 | 1.300 | .865* | .047 | .685 | .850 | 2.365 | 1.920 | 1.505 | .688 |

- The CAL series has a large flange to provide increased strength in punched and drilled holes.
- Knurled body provides a higher resistance to spin out when installed in soft materials.
- Inch body
- Inch and metric threads

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Grip Range | | L ± .38 | HD ±.25 ±.64* | HT ± .08 | D Max. | IL Max. | LB ± .38 | ILB Max. | ITD Ref. | Hole Size +.15/- .000 |
|------------------------|--------------|------------|------|------------|------------------|-------------|-----------|------------|-------------|-------------|-------------|--------------------------|
| | | Min. | Max. | | | | | | | | | |
| CAL2-470-2.0 | M4x0.7 ISO | 0.50 | 2.00 | 10.68 | 9.91 | 0.76 | 6.73 | 7.75 | 18.80 | 16.26 | 15.49 | 6.75 |
| CAL2-470-3.3 | M4x0.7 ISO | 2.00 | 3.30 | 11.94 | 9.91 | 0.76 | 6.73 | 7.75 | 18.80 | 14.73 | 17.02 | 6.75 |
| CAL2-580-3.3 | M5x0.8 ISO | 0.50 | 3.30 | 12.07 | 10.54 | 0.76 | 7.52 | 8.00 | 25.15 | 21.46 | 18.54 | 7.60 |
| CAL2-580-5.7 | M5x0.8 ISO | 3.30 | 5.70 | 14.86 | 10.54 | 0.76 | 7.52 | 8.00 | 25.15 | 18.67 | 21.34 | 7.60 |
| CAL2-610-4.2 | M6x1.0 ISO | 0.70 | 4.20 | 14.73 | 12.70 | 0.76 | 9.91 | 9.65 | 30.23 | 25.53 | 22.73 | 10.00 |
| CAL2-610-6.6 | M6x1.0 ISO | 4.20 | 6.60 | 17.27 | 12.70 | 0.76 | 9.91 | 9.65 | 30.23 | 22.99 | 26.29 | 10.00 |
| CAL2-8125-3.8 | M8x1.25 ISO | 0.70 | 3.80 | 17.53 | 17.40* | 0.89 | 13.46 | 11.94 | 35.31 | 29.85 | 25.27 | 13.50 |
| CAL2-8125-7.9 | M8x1.25 ISO | 3.80 | 7.90 | 20.45 | 17.40* | 0.89 | 13.46 | 10.80 | 35.31 | 26.04 | 28.45 | 13.50 |
| CAL2-1015-3.8 | M10x1.5 ISO | 0.70 | 3.80 | 17.53 | 17.40* | 0.89 | 13.46 | 11.94 | 35.31 | 29.85 | 25.27 | 13.50 |
| CAL2-1015-7.9 | M10x1.5 ISO | 3.80 | 7.90 | 20.45 | 17.40* | 0.89 | 13.46 | 10.80 | 35.31 | 26.04 | 28.45 | 13.50 |
| CAL2-12175-5.1 | M12x1.75 ISO | 1.60 | 5.10 | 29.21 | 21.97* | 1.19 | 17.40 | 21.59 | 60.07 | 52.58 | 38.23 | 17.45 |
| CAL2-12175-8.9 | M12x1.75 ISO | 5.10 | 8.90 | 33.02 | 21.97* | 1.19 | 17.40 | 21.59 | 60.07 | 48.77 | 38.23 | 17.45 |

◆ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CAL Specifications

Material:

Steel 1008/1010
Stainless Steel 302*
Aluminum 5056

RoHS Compliant Finishes:

Zinc Plated-Yellow Trivalent Chromate
per Sherex SFS-01-001, SC2

Zinc Plated-Clear Trivalent Chromate
per Sherex SFS-01-001

Part Number

Example: CAL2-2520-165

| | | | | |
|------------------|-------------------|-------------|------------|-------------------|
| CAL | 2 | 2520 | 165 | () |
| Product Style | Material | Thread Size | Grip Range | Empty-Open End |
| Large Flange | 1-Stainless Steel | | | B-Closed End |
| Knurled Body | 2-Steel | | | T-Clear Trivalent |
| Thin Wall Series | 3-Aluminum | | | W-Wedge Head |
| | | | | S-Sealed |

Special finish or material available upon request

*Contact Sherex for exact product dimensions in Stainless Steel.

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Contact Sherex for details.

CAL style rivet nuts are available in sealed, closed end, and wedge head designs by special order. Other specials available upon request. Contact Sherex for test data.

INSTALLATION TOOLING

CAL Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools.

For additional tooling information see pages 37-43.

Sherex rivet nuts are compatible with the following hardware:

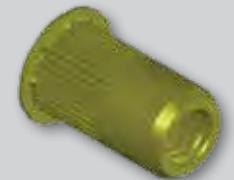
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.

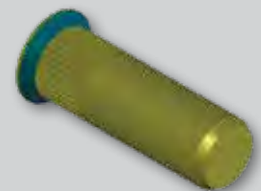
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CLOSED END



WEDGE HEAD



SEALED HEAD



CFT/CAT KNURLED 360° SWAGING SERIES

CFT/ CAT SERIES



- The CFT/CAT series offers one rivet nut for materials of any thickness greater than .030 inches.

- Cadmium Free finish allows the CFT Series to be used in any industry, including automotive.

- Designed to be used in metal applications.

- Inch body

- Inch and metric threads



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Cadmium Free & RoHS Compliant | HD ± .005 | L ± .015 | D Max. | Recommended Hole Size +.005/- .00 | | | |
|---------------------|-------------|-------------------------------|-----------|----------|--------|-----------------------------------|----------------------|----------------------|----------------------|
| | | | | | | MAT. THICK .030-.090 | MAT. THICK .091-.124 | MAT. THICK .125-.186 | MAT. THICK .187-Over |
| CAT2-0440 | 4-40 UNC | N | .211 | .370 | .1875 | .1875 | .1935 | .1935 | .1960 |
| CAT2-0632 | 6-32 UNC | N | .240 | .370 | .2185 | .2188 | .2210 | .2280 | .2280 |
| CAT2-0832 | 8-32 UNC | N | .269 | .370 | .2495 | .2500 | .2570 | .2656 | .2656 |
| CAT2-1024 | 10-24 UNC | N | .306 | .370 | .2805 | .2812 | .2900 | .2900 | .2969 |
| CAT2-1032 | 10-32 UNF | N | .306 | .370 | .2805 | .2812 | .2900 | .2900 | .2969 |
| CAT2-2520 | 1/4-20 UNC | N | .400 | .515 | .3745 | .3750 | .3750 | .3860 | .3906 |
| CAT2-3118 | 5/16-18 UNC | N | .528 | .615 | .4995 | .5000 | .5000 | .5156 | .5156 |
| CAT2-3716 | 3/8-16 UNC | N | .588 | .745 | .5615 | .5625 | .5625 | .5781 | .5781 |
| CAT2-5013 | 1/2-13 UNC | N | .800 | .935 | .7485 | .7500 | .7656 | .7810 | .7970 |
| CFT2-0440 | 4-40 UNC | Y | .211 | .370 | .1875 | .1875 | .1935 | .1935 | .1960 |
| CFT2-0632 | 6-32 UNC | Y | .240 | .370 | .2185 | .2188 | .2210 | .2280 | .2280 |
| CFT2-0832 | 8-32 UNC | Y | .269 | .370 | .2495 | .2500 | .2570 | .2656 | .2656 |
| CFT2-1024 | 10-24 UNC | Y | .306 | .370 | .2805 | .2812 | .2900 | .2900 | .2969 |
| CFT2-1032 | 10-32 UNF | Y | .306 | .370 | .2805 | .2812 | .2900 | .2900 | .2969 |
| CFT2-2520 | 1/4-20 UNC | Y | .400 | .515 | .3745 | .3750 | .3750 | .3860 | .3906 |
| CFT2-3118 | 5/16-18 UNC | Y | .528 | .615 | .4995 | .5000 | .5000 | .5156 | .5156 |
| CFT2-3716 | 3/8-16 UNC | Y | .588 | .745 | .5615 | .5625 | .5625 | .5781 | .5781 |
| CFT2-5013 | 1/2-13 UNC | Y | .800 | .935 | .7485 | .7500 | .7656 | .7810 | .7970 |

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Cadmium Free & RoHS Compliant | HD ± .13 | L ± .38 | D Max. | Recommended Hole Size +.13/- .00 | | | |
|---------------------|--------------|-------------------------------|----------|---------|--------|----------------------------------|----------------------|----------------------|----------------------|
| | | | | | | MAT. THICK 0.76-2.29 | MAT. THICK 2.31-3.15 | MAT. THICK 3.17-4.72 | MAT. THICK 4.72-Over |
| CAT2-350♦ | M3X0.5 ISO | N | 5.36 | 9.40 | 4.76 | 4.75 | 4.90 | 4.90 | 4.97 |
| CAT2-470♦ | M4X0.7 ISO | N | 6.83 | 9.40 | 6.34 | 6.35 | 6.52 | 6.74 | 6.74 |
| CAT2-580♦ | M5X0.8 ISO | N | 7.77 | 9.40 | 7.12 | 7.14 | 7.36 | 7.36 | 7.54 |
| CAT2-610 | M6X1.0 ISO | N | 10.16 | 13.08 | 9.51 | 9.52 | 9.52 | 9.80 | 9.92 |
| CAT2-8125♦ | M8X1.25 ISO | N | 13.41 | 15.62 | 12.69 | 12.70 | 12.70 | 13.09 | 13.09 |
| CAT2-1015♦ | M10X1.5 ISO | N | 14.94 | 18.92 | 14.26 | 14.28 | 14.28 | 14.68 | 14.68 |
| CAT2-12175♦ | M12X1.75 ISO | N | 20.32 | 23.75 | 19.01 | 19.05 | 19.44 | 19.83 | 20.24 |
| CFT2-350♦ | M3X0.5 ISO | Y | 5.36 | 9.40 | 4.76 | 4.75 | 4.90 | 4.90 | 4.97 |
| CFT2-470♦ | M4X0.7 ISO | Y | 6.83 | 9.40 | 6.34 | 6.35 | 6.52 | 6.74 | 6.74 |
| CFT2-580 | M5X0.8 ISO | Y | 7.77 | 9.40 | 7.12 | 7.14 | 7.36 | 7.36 | 7.54 |
| CFT2-610 | M6X1.0 ISO | Y | 10.16 | 13.08 | 9.51 | 9.52 | 9.52 | 9.80 | 9.92 |
| CFT2-8125 | M8X1.25 ISO | Y | 13.41 | 15.62 | 12.69 | 12.70 | 12.70 | 13.09 | 13.09 |
| CFT2-1015 | M10X1.5 ISO | Y | 14.94 | 18.92 | 14.26 | 14.28 | 14.28 | 14.68 | 14.68 |
| CFT2-12175♦ | M12X1.75 ISO | Y | 20.32 | 23.75 | 19.01 | 19.05 | 19.44 | 19.83 | 20.24 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CFT/CAT Specifications

Material:

Stainless Steel, 304 L
Steel, 12L14
Steel, 1215

Finish: CAT is Cadmium Plated per QQ-P-416 Type 1, Class 3 with clear protective coating

CFT is Proprietary Tin Plated

Part Number

Example: CAT2-2520

| | | |
|------------------------|-------------------|-------------|
| CAT | 2 | 2520 |
| Cadmium T series | Material | Thread Size |
| Featuring 360° Swaging | 1-Stainless Steel | |
| | 2-Steel | |

Special finish or material available upon request

***CFT and CAT rivet nut styles are dimensionally the same. CFT is Cadmium Free and RoHS Compliant.**

Actual hole size can be affected by parent material and material thickness. Contact Sherex for details.

CFT/CAT series available in different finishes. Other specials available upon request.

Contact Sherex for test data.

Mating material holes must be smaller than flange diameter.

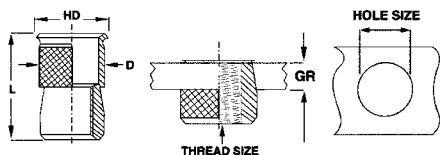
INSTALLATION TOOLING

CFT/CAT Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 37-43. Sherex rivet nuts are compatible with the following hardware: **GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8** Please contact Sherex when using other grade fasteners.

CFT Stainless Steel (CFT1) products are now produced in our Sherex Akron facility, and are available with reduced lead times!

Sherex Fastening Solutions • 866-474-3739 • www.sherex.com • info@sherex.com

CFW/CAW DIAMOND KNURLED 360° SWAGING SERIES



Material thickness .062"±.157 min

CFW/ CAW SERIES



UNIFIED THREAD (UNIT - INCHES)

| Part Number (Steel) | Thread Size | Cadmium Free & RoHS Compliant | HD ± .005 | L ± .015 | D Max. | Hole Size +.005/- .00 |
|------------------------|-------------|-------------------------------------|--------------|-------------|-----------|--------------------------|
| CAW2-0632♦ | 6-32 UNC | N | .255 | .370 | .233 | .234 |
| CAW2-0832 | 8-32 UNC | N | .285 | .370 | .264 | .266 |
| CAW2-1024 | 10-24 UNC | N | .320 | .370 | .295 | .297 |
| CAW2-1032 | 10-32 UNF | N | .320 | .370 | .295 | .297 |
| CAW2-2520 | 1/4-20 UNC | N | .415 | .515 | .389 | .391 |
| CAW2-3118 | 5/16-18 UNC | N | .550 | .615 | .528 | .531 |
| CAW2-3716♦ | 3/8-16 UNC | N | .615 | .740 | .590 | .594 |
| CFW2-0632♦ | 6-32 UNC | Y | .255 | .370 | .233 | .234 |
| CFW2-0832 | 8-32 UNC | Y | .285 | .370 | .264 | .266 |
| CFW2-1024 | 10-24 UNC | Y | .320 | .370 | .295 | .297 |
| CFW2-1032 | 10-32 UNF | Y | .320 | .370 | .295 | .297 |
| CFW2-2520 | 1/4-20 UNC | Y | .415 | .515 | .389 | .391 |
| CFW2-3118♦ | 5/16-18 UNC | Y | .550 | .615 | .528 | .531 |
| CFW2-3716♦ | 3/8-16 UNC | Y | .615 | .740 | .590 | .594 |

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number (Steel) | Thread Size | Cadmium Free & RoHS Compliant | HD ± .13 | L ± .38 | D Max. | Hole Size +.13/- .00 |
|------------------------|-------------|-------------------------------------|-------------|------------|-----------|-------------------------|
| CAW2-470♦ | M4X0.7 ISO | N | 7.24 | 9.40 | 6.71 | 6.75 |
| CAW2-580♦ | M5X0.8 ISO | N | 8.13 | 9.40 | 7.50 | 7.54 |
| CAW2-610♦ | M6X1.0 ISO | N | 10.54 | 13.08 | 9.88 | 9.92 |
| CAW2-8125♦ | M8X1.25 ISO | N | 13.97 | 15.62 | 13.41 | 13.49 |
| CAW2-1015♦ | M10X1.5 ISO | N | 15.62 | 18.80 | 14.99 | 15.00 |
| CFW2-470♦ | M4X0.7 ISO | Y | 7.24 | 9.40 | 6.71 | 6.75 |
| CFW2-580♦ | M5X0.8 ISO | Y | 8.13 | 9.40 | 7.50 | 7.54 |
| CFW2-610 | M6X1.0 ISO | Y | 10.54 | 13.08 | 9.88 | 9.92 |
| CFW2-8125♦ | M8X1.25 ISO | Y | 13.97 | 15.62 | 13.41 | 13.49 |
| CFW2-1015♦ | M10X1.5 ISO | Y | 15.62 | 18.80 | 14.99 | 15.00 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CFW/CAW Specifications

Material:

Stainless Steel, 304 L
Steel, 12L14
Steel, 1215

Finish: CAW is Cadmium Plated per QQ-P-416 Type 1, Class 3 with clear protective coating

CFW is Proprietary Tin Plated

Part Number

Example: CAW2-2520

| | | |
|------------------------|-------------------|-------------|
| CAW | 2 | 2520 |
| Cadmium W series | Material | Thread Size |
| Featuring 360° Swaging | 1-Stainless Steel | |
| | 2-Steel | |

Special finish or material available upon request

***CFW and CAW rivet nut styles are dimensionally the same. CFW is Cadmium Free and RoHS Compliant.**

Actual hole size can be affected by parent material and material thickness. Contact Sherex for details.

CFW/CAW series available in different finishes. Other specials available upon request.

Contact Sherex for test data.

Mating material holes must be smaller than flange diameter.

INSTALLATION TOOLING

CFW/CAW Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools.

For additional tooling information see pages 37-43.

Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.

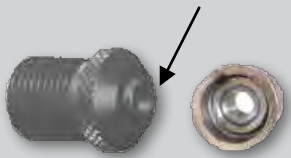
RIV-FLOAT®



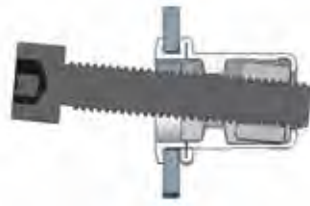
- The RIV-FLOAT® series provides easy, accurate, and fast attachment of components in off-center applications.

- Inch body
- Inch and metric threads

CENTERING
NOSEPIECE



- The RIV-FLOAT® series should be installed with the FLEX-5 Hydro-Pneumatic Tool with a RIV-FLOAT® Anvil.



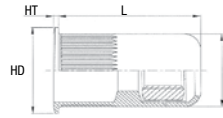
CROSS SECTION OF RIV-FLOAT®
INSTALLED



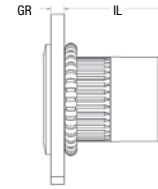
STANDARD RIVET
NUT INSTALLED

FEATURES AND BENEFITS

- Accounts for tolerance stack up in joint design and misalignment during service of the joint.
- Floating nut aligns to drive angle of screw virtually eliminating cross threading and spin out.
- Allows for installation in post painted or powder coat applications where riveted nut plates or cage nuts are typically used.
- RoHS compliant Zinc electroplate to 8µm with trivalent chromate - 96/240 hrs (WR/RR).
- Designed with higher thread strength than regular rivet nuts.
- Mechanically locked RIV-FLOAT® is available with prevailing torque feature to IFI spec 100/107.



UNINSTALLED



INSTALLED

RFK SMALL FLANGE SERIES (UNIT - INCHES)

| Part Number Inch (Steel) | Thread Size | Radial Deflection | Grip Range | | L ± .0215 | HD ± .010 | HT ± .002 | D Max. | IL Ref. | Hole Size +.006/- .000 |
|-----------------------------|-------------|----------------------|------------|------|--------------|--------------|--------------|-----------|------------|---------------------------|
| | | | Min. | Max. | | | | | | |
| RFK2-0632-130 | 6-32 UNC | .020 | .027 | .130 | .7195 | .455 | .022 | .390 | .522 | .391 |
| RFK2-0832-130 | 8-32 UNC | .020 | .027 | .130 | .7195 | .455 | .022 | .390 | .522 | .391 |
| RFK2-1032-150 | 10-32 UNF | .015 | .027 | .150 | .7195 | .455 | .022 | .390 | .522 | .391 |
| RFK2-2520-150 | 1/4-20 UNC | .030 | .027 | .150 | .8190 | .595 | .022 | .530 | .630 | .531 |

RFK SMALL FLANGE SERIES (UNIT - MILLIMETERS)

| Part Number Metric (Steel) | Thread Size | Radial Deflection | Grip Range | | L ± .55 | HD ± .25 | HT ± .05 | D Max. | IL Ref. | Hole Size +.15/- .000 |
|-------------------------------|-------------|----------------------|------------|------|------------|-------------|-------------|-----------|------------|--------------------------|
| | | | Min. | Max. | | | | | | |
| RFK2-470-3.3 | M4x0.7 ISO | .51 | 0.70 | 3.3 | 18.28 | 11.56 | .55 | 9.91 | 13.25 | 10.00 |
| RFK2-580-3.8 | M5x0.8 ISO | .38 | 0.70 | 3.8 | 18.28 | 11.56 | .55 | 9.91 | 13.25 | 10.00 |
| RFK2-610-3.8 | M6x1.0 ISO | .76 | 0.70 | 3.8 | 20.80 | 15.11 | .55 | 13.46 | 16.00 | 13.50 |

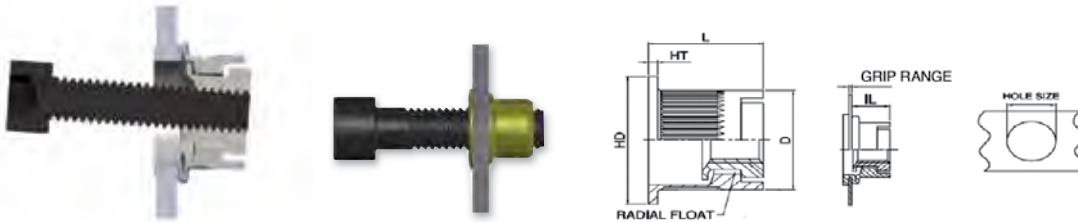
RFL LARGE FLANGE SERIES (UNIT - INCHES)

| Part Number Inch (Steel) | Thread Size | Radial Deflection | Grip Range | | L ± .0215 | HD ± .010 | HT ± .003 | D Max. | IL Ref. | Hole Size +.006/- .000 |
|-----------------------------|-------------|----------------------|------------|------|--------------|--------------|--------------|-----------|------------|---------------------------|
| | | | Min. | Max. | | | | | | |
| RFL2-0632-130 | 6-32 UNC | .020 | .027 | .130 | .7195 | .500 | .030 | .390 | .522 | .391 |
| RFL2-0832-130 | 8-32 UNC | .020 | .027 | .130 | .7195 | .500 | .030 | .390 | .522 | .391 |
| RFL2-1032-150 | 10-32 UNF | .015 | .027 | .150 | .7195 | .500 | .030 | .390 | .522 | .391 |
| RFL2-2520-150 | 1/4-20 UNC | .030 | .027 | .150 | .8190 | .685 | .035 | .530 | .630 | .531 |

RFL LARGE FLANGE SERIES (UNIT - MILLIMETERS)

| Part Number Metric (Steel) | Thread Size | Radial Deflection | Grip Range | | L ± .55 | HD ± .25 | HT ± .08 | D Max. | IL Ref. | Hole Size +.15/- .000 |
|-------------------------------|-------------|----------------------|------------|------|------------|-------------|-------------|-----------|------------|--------------------------|
| | | | Min. | Max. | | | | | | |
| RFL2-470-3.3 | M4x0.7 ISO | .51 | 0.70 | 3.3 | 18.28 | 12.70 | .76 | 9.91 | 13.25 | 10.00 |
| RFL2-580-3.8 | M5x0.8 ISO | .38 | 0.70 | 3.8 | 18.28 | 12.70 | .76 | 9.91 | 13.25 | 10.00 |
| RFL2-610-3.8 | M6x1.0 ISO | .76 | 0.70 | 3.8 | 20.80 | 17.40 | .89 | 13.46 | 16.00 | 13.50 |

RIV-FLOAT® is covered under US Patent No. 7,713,011



Cross section of RIV-FLOAT®-short Installed

Standard Rivet Nut Installed

Uninstalled

Installed

RFSK INCH THREAD SMALL FLANGE SERIES (UNIT - INCHES)

| Part Number Inch - Steel | Thread Size | Radial Float | Grip Range | | L | HD | HT | D | IL | Hole Size |
|-----------------------------|-------------|-----------------|------------|------|------|------|------|------|------|-----------|
| | | | Min. | Max. | | | | | | |
| RFSK2-0832-100◆ | 8-32 UNC | 0.020 | .020 | .100 | .394 | .480 | .025 | .431 | .246 | .433 |
| RFSK2-1024-100◆ | 10-24 UNC | 0.020 | .020 | .100 | .394 | .480 | .025 | .431 | .246 | .433 |
| RFSK2-1032-100◆ | 10-32 UNF | 0.020 | .020 | .100 | .394 | .480 | .025 | .431 | .246 | .433 |

RFSK METRIC THREAD SMALL FLANGE SERIES (UNIT - MILLIMETERS)

| SHEREX Part Number Metric - Steel | Thread Size | Radial Float | Grip Range | | L | HD | HT | D | IL | Hole Size |
|---|-------------|-----------------|------------|------|-------|-------|-----|-------|------|-----------|
| | | | Min. | Max. | | | | | | |
| RFSK2-470-2.5 | M4x0.7 ISO | 0.50 | 0.50 | 2.50 | 10.00 | 12.20 | .63 | 10.95 | 6.25 | 11.00 |
| RFSK2-580-2.5◆ | M5x0.8 ISO | 0.50 | 0.50 | 2.50 | 10.00 | 12.20 | .63 | 10.95 | 6.25 | 11.00 |

RFSL INCH THREAD LARGE FLANGE SERIES (UNIT - INCHES)

| Part Number Inch - Steel | Thread Size | Radial Float | Grip Range | | L | HD | HT | D | IL | Hole Size |
|-----------------------------|-------------|-----------------|------------|------|------|------|------|------|------|-----------|
| | | | Min. | Max. | | | | | | |
| RFSL2-0832-100 | 8-32 UNC | 0.020 | .020 | .100 | .406 | .555 | .033 | .431 | .246 | .433 |
| RFSL2-1024-100 | 10-24 UNC | 0.020 | .020 | .100 | .406 | .555 | .033 | .431 | .246 | .433 |
| RFSL2-1032-100 | 10-32 UNF | 0.020 | .020 | .100 | .406 | .555 | .033 | .431 | .246 | .433 |

RFSL METRIC THREAD LARGE FLANGE SERIES (UNIT - MILLIMETERS)

| Part Number Metric - Steel | Thread Size | Radial Float | Grip Range | | L | HD | HT | D | IL | Hole Size |
|-------------------------------|-------------|-----------------|------------|------|-------|-------|-----|-------|------|-----------|
| | | | Min. | Max. | | | | | | |
| RFSL2-470-2.5 | M4x0.7 ISO | 0.50 | 0.50 | 2.50 | 10.30 | 14.10 | .85 | 10.95 | 6.25 | 11.00 |
| RFSL2-580-2.5 | M5x0.8 ISO | 0.50 | 0.50 | 2.50 | 10.30 | 14.10 | .85 | 10.95 | 6.25 | 11.00 |

◆ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

RIV-FLOAT®-SHORT vs. Riveted Nut Plates vs. Cage Nuts

Riv-Float® Short Rivet Nuts are an ideal replacement in applications where Riveted Nut Plates or Cage Nuts are being used: they require fewer holes and installation is quicker and can be done with access to only one side of the work piece.

| | RIV-FLOAT® SHORT | Riveted Nut Plate | Cage Nut |
|-----------------------------|------------------|--|-----------------|
| Hole | 1 round hole | 3 holes (1 for plate, 2 for the rivets) | 1 square hole |
| Access to work piece | One side | Both sides | Both sides |
| Installation Time | 2 - 3 seconds | 15 - 20 seconds | 15 - 20 seconds |

Riveted Nut Plate RIV-FLOAT®-SHORT Cage Nut



RIV-FLOAT® Short is covered under U.S. Patent No. 9,309,914

Sherex Fastening Solutions • 866-474-3739 • www.sherex.com • info@sherex.com

RIV-FLOAT® SHORT SERIES

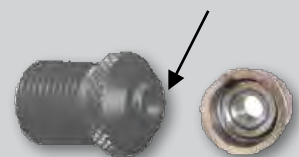


- The RIV-FLOAT® - Short series provides easy, accurate, and fast attachment of components in off-center applications with a shorter body.

- Inch body

- Inch and metric threads

CENTERING NOSEPIECE

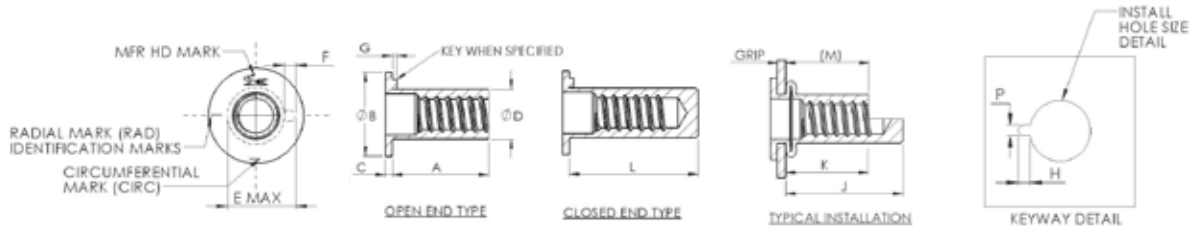


- The RIV-FLOAT® - Short series should be installed with the FLEX-5 Hydro-Pneumatic Tool with a RIV-FLOAT® - Short Anvil.

NAS/MS FLAT HEAD STYLES

NAS/MS FLAT HEAD STYLES

Produced in
our AS9100
Certified
manufacturing
facility in
Akron, Ohio.



UNIFIED THREAD (UNIT - INCHES)

| THREAD SIZE | ØB +/- .015 | C NOM | ØD +.000/- .004 | INSTALL DRILL SIZE (REF) | INSTALL HOLE SIZE | | E MAX | F +.005/- .000 | G MAX | KEYWAY DIMENSIONS | | *PULL UP FACTOR |
|----------------|-------------|-------|-----------------|--------------------------|-------------------|------|-------|----------------|-------|-------------------|-------------|-----------------|
| | | | | | MIN | MAX | | | | P +.003/- .000 | H | |
| 4-40 UNC-3B | 0.270 | 0.025 | 0.155 | 5/32 | .155 | .157 | 0.198 | 0.054 | 0.023 | 0.062 | .046 - .048 | .055 |
| 6-32 UNC-3B | 0.325 | 0.032 | 0.189 | NO 12 | .189 | .193 | 0.240 | 0.054 | 0.023 | 0.062 | .056 - .058 | .065 |
| 8-32 UNC-3B | 0.357 | 0.032 | 0.221 | NO 2 | .221 | .226 | 0.271 | 0.054 | 0.023 | 0.062 | .056 - .058 | .065 |
| 10-24 UNC-3B | 0.406 | 0.038 | 0.250 | E | .250 | .256 | 0.302 | 0.054 | 0.023 | 0.062 | .056 - .058 | .080 |
| 10-32 UNF-3B | | | | | | | | | | | | |
| 1/4-20 UNC-3B | 0.475 | 0.058 | 0.332 | Q | .332 | .338 | 0.382 | 0.054 | 0.035 | 0.062 | .056 - .058 | .095 |
| 1/4-28 UNF-3B | | | | | | | | | | | | |
| 5/16-18 UNC-3B | 0.665 | 0.062 | 0.413 | Z | .413 | .423 | 0.505 | 0.120 | 0.040 | 0.128 | .097 - .102 | .120 |
| 5/16-24 UNF-3B | | | | | | | | | | | | |
| 3/8-16 UNC-3B | 0.781 | 0.088 | 0.490 | 12.5 MM | .490 | .500 | 0.597 | 0.120 | 0.040 | 0.128 | .110 - .115 | .155 |
| 3/8-24 UNF-3B | | | | | | | | | | | | |
| 1/2-13 UNC-3B | 0.906 | 0.085 | 0.625 | 5/8 | .625 | .635 | 0.733 | 0.120 | 0.040 | 0.128 | .110 - .115 | .185 |
| 1/2-20 UNF-3B | | | | | | | | | | | | |

PART NUMBERING SYSTEM

Example: SXS2528-80CY

| SX | S | 2528 | () | 80 | CY |
|--------------------|---|-------------|--|--|--|
| Sherex NAS Part | Material S-Steel A-Aluminum SS- 430 Stainless Steel NM- 316 Stainless (Non-Magnetic) CH-Alloy Steel B-Brass | Thread Size | () - Open Ended Non Keyed B-Closed End K-Keyed R-Ribbed | Grip Range Ending in 0 or 5 denotes Flat Head Ending in 1 or 6 denotes Counter- sunk Head | CY-Cadmium Yellow ZY-Zinc Yellow ML-Mechanical Lock |



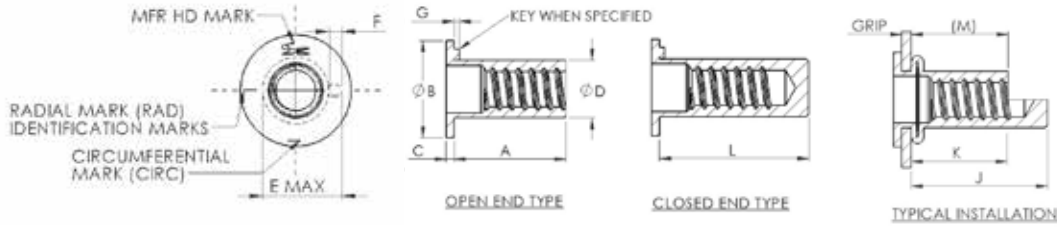
CLASSIFICATION PART STANDARD
7EK30

CLASSIFICATION PART STANDARD
4JQL4

Compliant to DFARS 252.225-7009



NAS/MS FLAT HEAD STYLES



NAS/MS FLAT HEAD STYLES

Produced in
our AS9100 Certified
manufacturing
facility in
Akron, Ohio.



UNIFIED THREAD (UNIT - INCHES)

| PART NUMBER* | THREAD SIZE | GRIP RANGE | IDENTIFYING MARK | OPEN END KEYED AND KEYLESS | | CLOSED END KEYLESS | | | CLOSED END KEYED | | |
|---------------|----------------|------------|------------------|----------------------------|----------|--------------------|----------|----------|------------------|----------|----------|
| | | | | A +/- .015 | M REF | L +/- .015 | J NOM | K NOM | L +/- .015 | J NOM | K NOM |
| SXS4-60CY | 4-40 UNC-3B | .010-.060 | BLANK | 0.345 | 0.230 | 0.500 | 0.385 | 0.230 | 0.500 | 0.385 | 0.230 |
| SXS4-85CY | | .060-.085 | 1 RAD | 0.370 | 0.230 | 0.525 | 0.385 | 0.230 | 0.525 | 0.385 | 0.230 |
| SXS4-110CY | | .085-.110 | 2 RAD | 0.400 | 0.230 | 0.555 | 0.390 | 0.230 | 0.555 | 0.390 | 0.230 |
| SXS4-135CY | | .110-.135 | 3 RAD | 0.425 | 0.230 | 0.580 | 0.385 | 0.230 | 0.580 | 0.385 | 0.230 |
| SXS4-160CY | | .135-.160 | 4 RAD | 0.450 | 0.230 | 0.605 | 0.385 | 0.230 | 0.605 | 0.385 | 0.230 |
| SXS4-185CY | | .160-.185 | 5 RAD | 0.480 | 0.230 | 0.635 | 0.385 | 0.230 | 0.635 | 0.385 | 0.230 |
| SXS6-75CY | 6-32 UNC-3B | .010-.075 | 1 RAD | 0.438 | 0.300 | 0.625 | 0.490 | 0.305 | 0.750 | 0.615 | 0.405 |
| SXS6-120CY | | .075-.120 | 3 RAD | 0.500 | 0.315 | 0.625 | 0.440 | 0.255 | 0.750 | 0.565 | 0.355 |
| SXS6-160CY | | .120-.160 | 5 RAD | 0.500 | 0.270 | 0.750 | 0.520 | 0.260 | 0.750 | 0.520 | 0.310 |
| SXS6-200CY | | .160-.200 | 1 CIRC | 0.562 | 0.290 | 0.750 | 0.480 | 0.260 | 0.750 | 0.480 | 0.260 |
| SXS6-240CY | | .200-.240 | 2 CIRC | 0.625 | 0.310 | 0.750 | 0.435 | 0.260 | 0.750 | 0.435 | 0.260 |
| SXS6-280CY | | .240-.280 | 3 CIRC | 0.687 | 0.330 | 0.812 | 0.455 | 0.265 | 0.812 | 0.455 | 0.265 |
| SXS8-75CY | 8-32 UNC-3B | .010-.075 | 1 RAD | 0.438 | 0.300 | 0.625 | 0.490 | 0.305 | 0.750 | 0.615 | 0.405 |
| SXS8-120CY | | .075-.120 | 3 RAD | 0.500 | 0.315 | 0.625 | 0.440 | 0.255 | 0.750 | 0.565 | 0.355 |
| SXS8-160CY | | .120-.160 | 5 RAD | 0.500 | 0.270 | 0.750 | 0.520 | 0.260 | 0.750 | 0.520 | 0.310 |
| SXS8-200CY | | .160-.200 | 1 CIRC | 0.625 | 0.350 | 0.750 | 0.475 | 0.265 | 0.750 | 0.475 | 0.265 |
| SXS8-240CY | | .200-.240 | 2 CIRC | 0.625 | 0.305 | 0.875 | 0.555 | 0.310 | 0.875 | 0.555 | 0.310 |
| SXS8-280CY | | .240-.280 | 3 CIRC | 0.687 | 0.340 | 0.875 | 0.530 | 0.290 | 0.875 | 0.530 | 0.290 |
| SXS1024-80CY | 10-24 UNC-3B | .010-.080 | BLANK | 0.531 | 0.380 | 0.781 | 0.630 | 0.380 | 0.781 | 0.630 | 0.380 |
| SXS10-80CY | 10-32 UNF-3B | | | | | | | | | | |
| SXS10-130CY | | .080-.130 | 1 RAD | 0.594 | 0.390 | 0.843 | 0.640 | 0.390 | 0.843 | 0.640 | 0.390 |
| SXS10-180CY | | .130-.180 | 2 RAD | 0.641 | 0.390 | 0.891 | 0.640 | 0.390 | 0.891 | 0.640 | 0.390 |
| SXS10-230CY | | .180-.230 | 3 RAD | 0.703 | 0.395 | 0.953 | 0.645 | 0.395 | 0.953 | 0.645 | 0.395 |
| SXS10-280CY | | .230-.280 | 4 RAD | 0.750 | 0.395 | 1.000 | 0.645 | 0.395 | 1.000 | 0.645 | 0.395 |
| SXS10-330CY | | .280-.330 | 5 RAD | 0.797 | 0.385 | 1.047 | 0.630 | 0.385 | 1.047 | 0.630 | 0.385 |
| SXS2528-80CY | 1/4-28 UNF-3B | .020-.080 | BLANK | 0.625 | 0.450 | 0.937 | 0.760 | 0.440 | 0.937 | 0.760 | 0.440 |
| SXS25-80CY | 1/4-20 UNC-3B | | | | | | | | | | |
| SXS25-140CY | | .080-.140 | 1 RAD | 0.687 | 0.450 | 1.000 | 0.760 | 0.440 | 1.000 | 0.760 | 0.440 |
| SXS25-200CY | | .140-.200 | 2 RAD | 0.750 | 0.450 | 1.062 | 0.760 | 0.440 | 1.062 | 0.760 | 0.440 |
| SXS25-260CY | | .200-.260 | 3 RAD | 0.812 | 0.445 | 1.125 | 0.755 | 0.445 | 1.125 | 0.755 | 0.445 |
| SXS25-320CY | | .260-.320 | 4 RAD | 0.875 | 0.445 | 1.187 | 0.755 | 0.445 | 1.187 | 0.755 | 0.445 |
| SXS25-380CY | | .320-.380 | 5 RAD | 0.937 | 0.445 | 1.250 | 0.755 | 0.445 | 1.250 | 0.755 | 0.445 |
| SXS3124-125CY | 5/16-24 UNF-3B | .030-.125 | BLANK | 0.750 | 0.505 | 1.187 | 0.940 | 0.550 | 1.187 | 0.940 | 0.550 |
| SXS31-125CY | 5/16-18 UNC-3B | | | | | | | | | | |
| SXS31-200CY | | .125-.200 | 1 RAD | 0.875 | 0.555 | 1.281 | 0.960 | 0.555 | 1.281 | 0.960 | 0.555 |
| SXS31-275CY | | .200-.275 | 2 RAD | 0.937 | 0.540 | 1.343 | 0.950 | 0.560 | 1.343 | 0.950 | 0.560 |
| SXS31-350CY | | .275-.350 | 3 RAD | 1.032 | 0.560 | 1.437 | 0.965 | 0.570 | 1.437 | 0.965 | 0.570 |
| SXS31-425CY | | .350-.425 | 4 RAD | 1.125 | 0.580 | 1.531 | 0.985 | 0.575 | 1.531 | 0.985 | 0.575 |
| SXS31-500CY | | .425-.500 | 5 RAD | 1.187 | 0.565 | 1.593 | 0.975 | 0.580 | 1.593 | 0.975 | 0.580 |
| SXS3724-115CY | 3/8-24 UNF-3B | .030-.115 | BLANK | 0.844 | 0.585 | 1.281 | 1.020 | 0.660 | 1.281 | 1.020 | 0.660 |
| SXS37-115CY | 3/8-16 UNC-3B | | | | | | | | | | |
| SXS37-200CY | | .115-.200 | 1 RAD | 0.938 | 0.595 | 1.375 | 1.030 | 0.670 | 1.375 | 1.030 | 0.670 |
| SXS37-285CY | | .200-.285 | 2 RAD | 1.031 | 0.605 | 1.468 | 1.040 | 0.680 | 1.468 | 1.040 | 0.680 |
| SXS37-370CY | | .285-.370 | 3 RAD | 1.125 | 0.615 | 1.562 | 1.050 | 0.690 | 1.562 | 1.050 | 0.690 |
| SXS37-455CY | | .370-.455 | 4 RAD | 1.218 | 0.630 | 1.656 | 1.065 | 0.710 | 1.656 | 1.065 | 0.710 |
| SXS37-540CY | | .455-.540 | 5 RAD | 1.312 | 0.635 | 1.750 | 1.075 | 0.715 | 1.750 | 1.075 | 0.715 |
| SXS5020-150CY | 1/2-20 UNF-3B | .050-.150 | BLANK | 0.906 | 0.605 | 1.328 | 1.030 | 0.605 | 1.328 | 1.030 | 0.605 |
| SXS50-150CY | 1/2-13 UNC-3B | | | | | | | | | | |
| SXS50-250CY | | .150-.250 | 1 RAD | 1.031 | 0.630 | 1.453 | 1.055 | 0.630 | 1.453 | 1.055 | 0.630 |
| SXS50-350CY | | .250-.350 | 2 RAD | 1.141 | 0.640 | 1.562 | 1.060 | 0.640 | 1.562 | 1.060 | 0.640 |
| SXS50-450CY | | .350-.450 | 3 RAD | 1.250 | 0.650 | 1.671 | 1.070 | 0.650 | 1.671 | 1.070 | 0.650 |

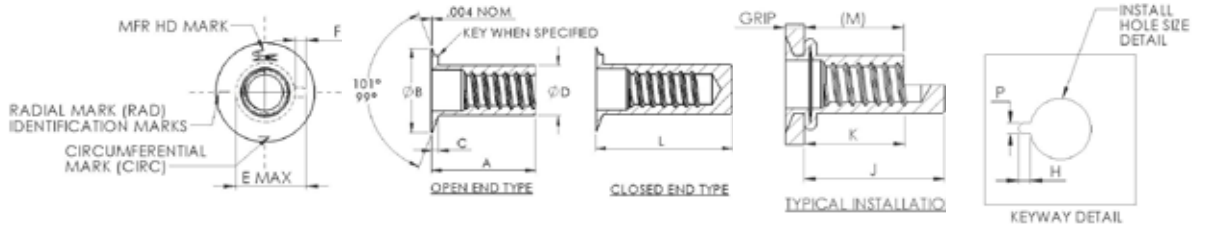
*Note: Part numbers reflect steel, open-end, non-keyed, with cadmium yellow plating only.
Please refer to part numbering system outlined on page 26 for further configurations.



NAS/MS COUNTERSUNK STYLES

NAS/MS COUNTERSUNK STYLES

Produced in our AS9100 Certified manufacturing facility in Akron, Ohio.



| UNIFIED THREAD (UNIT - INCHES) | | | | | | | | | | | | | |
|--------------------------------|-------------|-------|-----------------|--------------------------|-------------------|------|-------|-------|----------------|-------|-------------------|----------------|-----------------|
| THREAD SIZE | ØB +/- .015 | C NOM | ØD +.000/- .004 | INSTALL DRILL SIZE (REF) | INSTALL HOLE SIZE | | | E MAX | F +.005/- .000 | G MAX | KEYWAY DIMENSIONS | | *PULL UP FACTOR |
| | | | | | MIN | MAX | MIN | | | | MAX | P +.003/- .000 | |
| 4-40 UNC-3B | 0.270 | 0.025 | 0.155 | 5/32 | .155 | .157 | 0.198 | 0.054 | 0.023 | 0.062 | .046 - .048 | .055 | |
| 6-32 UNC-3B | 0.325 | 0.032 | 0.189 | NO 12 | .189 | .193 | 0.240 | 0.054 | 0.023 | 0.062 | .056 - .058 | .065 | |
| 8-32 UNC-3B | 0.357 | 0.032 | 0.221 | NO 2 | .221 | .226 | 0.271 | 0.054 | 0.023 | 0.062 | .056 - .058 | .065 | |
| 10-24 UNC-3B | 0.406 | 0.038 | 0.250 | E | .250 | .256 | 0.302 | 0.054 | 0.023 | 0.062 | .056 - .058 | .080 | |
| 10-32 UNF-3B | 0.406 | 0.038 | 0.250 | E | .250 | .256 | 0.302 | 0.054 | 0.023 | 0.062 | .056 - .058 | .080 | |
| 1/4-20 UNC-3B | 0.475 | 0.058 | 0.332 | Q | .332 | .338 | 0.382 | 0.054 | 0.035 | 0.062 | .056 - .058 | .095 | |
| 1/4-28 UNF-3B | 0.475 | 0.058 | 0.332 | Q | .332 | .338 | 0.382 | 0.054 | 0.035 | 0.062 | .056 - .058 | .095 | |
| 5/16-18 UNC-3B | 0.665 | 0.062 | 0.413 | Z | .413 | .423 | 0.505 | 0.120 | 0.040 | 0.128 | .097 - .102 | .120 | |
| 5/16-24 UNF-3B | 0.665 | 0.062 | 0.413 | Z | .413 | .423 | 0.505 | 0.120 | 0.040 | 0.128 | .097 - .102 | .120 | |
| 3/8-16 UNC-3B | 0.781 | 0.088 | 0.490 | 12.5 MM | .490 | .500 | 0.597 | 0.120 | 0.040 | 0.128 | .110 - .115 | .155 | |
| 3/8-24 UNF-3B | 0.781 | 0.088 | 0.490 | 12.5 MM | .490 | .500 | 0.597 | 0.120 | 0.040 | 0.128 | .110 - .115 | .155 | |
| 1/2-13 UNC-3B | 0.906 | 0.085 | 0.625 | 5/8 | .625 | .635 | 0.733 | 0.120 | 0.040 | 0.128 | .110 - .115 | .185 | |
| 1/2-20 UNF-3B | 0.906 | 0.085 | 0.625 | 5/8 | .625 | .635 | 0.733 | 0.120 | 0.040 | 0.128 | .110 - .115 | .185 | |

| PART NUMBERING SYSTEM | | | | | |
|------------------------------|---|-------------|--|--|--|
| Example: SXS2528-80CY | | | | | |
| SX | S | 2528 | (L) | 80 | CY |
| Sherex NAS Part | Material S-Steel A-Aluminum SS- 430 Stainless Steel NM- 316 Stainless (Non-Magnetic) CH-Alloy Steel B-Brass | Thread Size | (L) - Open Ended Non Keyed B-Closed End K-Keyed R-Ribbed | Grip Range Ending in 0 or 5 denotes Flat Head Ending in 1 or 6 denotes Counter- sunk Head | CY-Cadmium Yellow ZY-Zinc Yellow ML-Mechanical Lock |



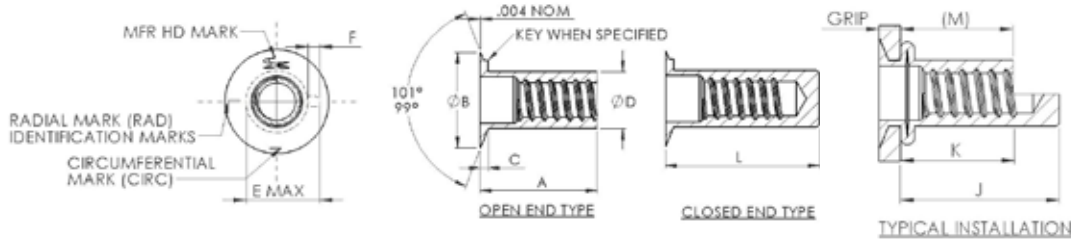
CLASSIFICATION PART STANDARD
7EK30

Compliant to DFARS 252.225-7009

CLASSIFICATION PART STANDARD
4JL4



NAS/MS COUNTERSUNK STYLES



NAS/MS COUNTERSUNK STYLES

Produced in our AS9100 Certified manufacturing facility in Akron, Ohio.



UNIFIED THREAD (UNIT - INCHES)

| PART NUMBER* | THREAD SIZE | GRIP RANGE | IDENTIFYING MARK | OPEN END KEYED AND KEYLESS | | CLOSED END KEYLESS | | | CLOSED END KEYED | | |
|---------------|----------------|------------|------------------|----------------------------|-------|--------------------|-------|-------|------------------|-------|-------|
| | | | | A +/- .015 | M REF | L +/- .015 | J NOM | K NOM | L +/- .015 | J NOM | K NOM |
| SXS4-81CY | #4-40 UNC-3B | .050-.081 | BLANK | 0.370 | 0.235 | 0.525 | 0.390 | 0.235 | 0.525 | 0.390 | 0.235 |
| SXS4-106CY | | .081-.106 | 1 RAD | 0.395 | 0.235 | 0.550 | 0.390 | 0.235 | 0.550 | 0.390 | 0.235 |
| SXS4-131CY | | .106-.131 | 2 RAD | 0.420 | 0.235 | 0.575 | 0.390 | 0.235 | 0.575 | 0.390 | 0.235 |
| SXS4-156CY | | .131-.156 | 3 RAD | 0.450 | 0.235 | 0.600 | 0.390 | 0.235 | 0.600 | 0.390 | 0.235 |
| SXS4-181CY | | .156-.181 | 4 RAD | 0.475 | 0.235 | 0.625 | 0.390 | 0.235 | 0.625 | 0.390 | 0.235 |
| SXS4-206CY | | .181-.206 | 5 RAD | 0.500 | 0.235 | 0.650 | 0.390 | 0.235 | 0.650 | 0.390 | 0.235 |
| SXS6-106CY | #6-32 UNC-3B | .065-.106 | BLANK | 0.500 | 0.325 | 0.687 | 0.510 | 0.325 | 0.812 | 0.635 | 0.425 |
| SXS6-161CY | | .106-.161 | 2 RAD | 0.500 | 0.280 | 0.687 | 0.465 | 0.280 | 0.812 | 0.590 | 0.380 |
| SXS6-201CY | | .161-.201 | 4 RAD | 0.562 | 0.295 | 0.687 | 0.420 | 0.260 | 0.812 | 0.545 | 0.335 |
| SXS6-241CY | | .201-.241 | 1 CIRC | 0.625 | 0.315 | 0.812 | 0.505 | 0.295 | 0.812 | 0.505 | 0.295 |
| SXS6-281CY | | .241-.281 | 2 CIRC | 0.625 | 0.270 | 0.812 | 0.465 | 0.265 | 0.812 | 0.465 | 0.265 |
| SXS6-321CY | | .281-.321 | 3 CIRC | 0.687 | 0.290 | 0.844 | 0.455 | 0.265 | 0.844 | 0.455 | 0.265 |
| SXS8-106CY | #8-32 UNC-3B | .065-.106 | BLANK | 0.500 | 0.325 | 0.687 | 0.510 | 0.325 | 0.812 | 0.635 | 0.425 |
| SXS8-161CY | | .106-.161 | 2 RAD | 0.500 | 0.280 | 0.687 | 0.465 | 0.280 | 0.812 | 0.590 | 0.380 |
| SXS8-201CY | | .161-.201 | 4 RAD | 0.562 | 0.290 | 0.687 | 0.415 | 0.255 | 0.812 | 0.540 | 0.330 |
| SXS8-241CY | | .201-.241 | 1 CIRC | 0.625 | 0.310 | 0.875 | 0.560 | 0.290 | 0.875 | 0.560 | 0.290 |
| SXS8-281CY | | .241-.281 | 2 CIRC | 0.687 | 0.325 | 0.875 | 0.515 | 0.290 | 0.875 | 0.515 | 0.290 |
| SXS8-321CY | | .281-.321 | 3 CIRC | 0.687 | 0.295 | 0.875 | 0.485 | 0.300 | 0.875 | 0.485 | 0.300 |
| SXS1024-116CY | #10-24 UNF-3B | .065-.116 | BLANK | 0.578 | 0.395 | 0.828 | 0.645 | 0.395 | 0.828 | 0.645 | 0.395 |
| SXS10-116CY | #10-32 UNF-3B | | | | | | | | | | |
| SXS10-166CY | | .116-.166 | 1 RAD | 0.625 | 0.385 | 0.875 | 0.635 | 0.385 | 0.875 | 0.635 | 0.385 |
| SXS10-216CY | | .166-.216 | 2 RAD | 0.687 | 0.400 | 0.938 | 0.650 | 0.400 | 0.938 | 0.650 | 0.400 |
| SXS10-266CY | | .216-.266 | 3 RAD | 0.734 | 0.390 | 0.984 | 0.640 | 0.390 | 0.984 | 0.640 | 0.390 |
| SXS10-316CY | | .266-.316 | 4 RAD | 0.781 | 0.385 | 1.031 | 0.635 | 0.385 | 1.031 | 0.635 | 0.385 |
| SXS10-366CY | | .316-.366 | 5 RAD | 0.844 | 0.400 | 1.094 | 0.650 | 0.400 | 1.094 | 0.650 | 0.400 |
| SXS2528-151CY | 1/4-28 UNF-3B | .089-.151 | BLANK | 0.687 | 0.440 | 1.000 | 0.750 | 0.435 | 1.000 | 0.750 | 0.435 |
| SXS25-151CY | 1/4-20 UNC-3B | | | | | | | | | | |
| SXS25-211CY | | .151-.211 | 1 RAD | 0.750 | 0.440 | 1.062 | 0.750 | 0.435 | 1.062 | 0.750 | 0.435 |
| SXS25-271CY | | .211-.271 | 2 RAD | 0.812 | 0.440 | 1.125 | 0.750 | 0.435 | 1.125 | 0.750 | 0.435 |
| SXS25-331CY | | .271-.331 | 3 RAD | 0.875 | 0.435 | 1.187 | 0.750 | 0.435 | 1.187 | 0.750 | 0.435 |
| SXS25-391CY | | .331-.391 | 4 RAD | 0.937 | 0.435 | 1.250 | 0.750 | 0.435 | 1.250 | 0.750 | 0.435 |
| SXS25-451CY | | .391-.451 | 5 RAD | 1.000 | 0.435 | 1.312 | 0.760 | 0.445 | 1.312 | 0.760 | 0.445 |
| SXS3124-181CY | 5/16-24 UNF-3B | .106-.181 | BLANK | 0.844 | 0.540 | 1.218 | 0.915 | 0.540 | 1.218 | 0.915 | 0.540 |
| SXS31-181CY | 5/16-18 UNC-3B | | | | | | | | | | |
| SXS31-256CY | | .181-.256 | 1 RAD | 0.937 | 0.560 | 1.312 | 0.935 | 0.560 | 1.312 | 0.935 | 0.560 |
| SXS31-331CY | | .256-.331 | 2 RAD | 1.000 | 0.550 | 1.406 | 0.955 | 0.550 | 1.406 | 0.955 | 0.550 |
| SXS31-406CY | | .331-.406 | 3 RAD | 1.093 | 0.565 | 1.468 | 0.940 | 0.565 | 1.468 | 0.940 | 0.565 |
| SXS31-481CY | | .406-.481 | 4 RAD | 1.156 | 0.555 | 1.562 | 0.960 | 0.555 | 1.562 | 0.960 | 0.555 |
| SXS31-556CY | | .481-.556 | 5 RAD | 1.250 | 0.575 | 1.625 | 0.950 | 0.575 | 1.625 | 0.950 | 0.575 |
| SXS3724-211CY | 3/8-24 UNF-3B | .125-.211 | BLANK | 0.938 | 0.580 | 1.375 | 1.020 | 0.655 | 1.375 | 1.020 | 0.655 |
| SXS37-211CY | 3/8-16 UNC-3B | | | | | | | | | | |
| SXS37-296CY | | .211-.296 | 1 RAD | 1.031 | 0.590 | 1.468 | 1.030 | 0.655 | 1.468 | 1.030 | 0.655 |
| SXS37-381CY | | .296-.381 | 2 RAD | 1.125 | 0.600 | 1.562 | 1.040 | 0.675 | 1.562 | 1.040 | 0.675 |
| SXS37-466CY | | .381-.466 | 3 RAD | 1.219 | 0.615 | 1.656 | 1.050 | 0.690 | 1.656 | 1.050 | 0.690 |
| SXS37-551CY | | .466-.551 | 4 RAD | 1.312 | 0.625 | 1.750 | 1.065 | 0.705 | 1.750 | 1.065 | 0.705 |
| SXS37-636CY | | .551-.636 | 5 RAD | 1.442 | 0.650 | 1.859 | 1.090 | 0.715 | 1.859 | 1.090 | 0.715 |
| SXS5020-226CY | 1/2-20 UNF-3B | .125-.226 | BLANK | 0.984 | 0.610 | 1.406 | 1.030 | 0.610 | 1.406 | 1.030 | 0.610 |
| SXS50-226CY | 1/2-13 UNC-3B | | | | | | | | | | |
| SXS50-326CY | | .226-.326 | 1 RAD | 1.094 | 0.620 | 1.515 | 1.040 | 0.620 | 1.515 | 1.040 | 0.620 |
| SXS50-426CY | | .326-.426 | 2 RAD | 1.218 | 0.640 | 1.625 | 1.050 | 0.640 | 1.625 | 1.050 | 0.640 |
| SXS50-526CY | | .426-.526 | 3 RAD | 1.312 | 0.635 | 1.750 | 1.075 | 0.635 | 1.750 | 1.075 | 0.635 |

*Note: Part numbers reflect steel, open-end, non-keyed, with cadmium yellow plating only. Please refer to part numbering system outlined on page 28 for further configurations.



UPO LARGE FLANGE/UFO COUNTERSUNK FLANGE ROUND METRIC SERIES

**UPO/
UFO
SERIES**



- The UPO series offers a large flange for increased strength and better containment of round or oversized holes.

- Metric body and metric threads

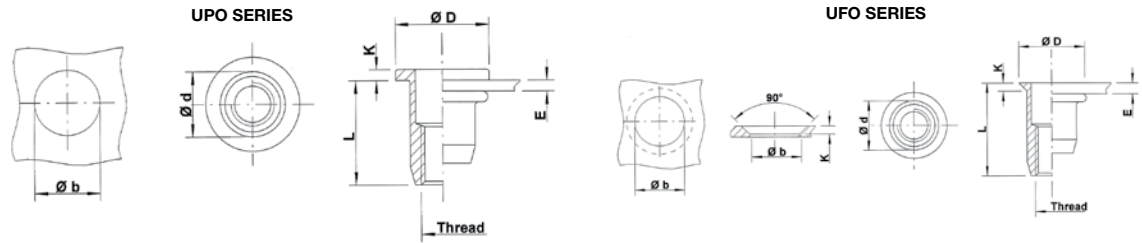


- The UFO series offers a countersunk head for flush installation into the parent materials.

- Metric body and metric threads



Available with knurled shank for increased performance (KN Series).



UPO SERIES METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Steel | Thread Size | Grip Range (E) | | L ± 0.35 | D ± 0.35 | K ± 0.15 | d -0.02/-0.15 | Hole Size (b+0.1) |
|----------------------|--------------|----------------|------|-------------|-------------|-------------|------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SM3UPO20ZT | M3X0.5 ISO | 0.5 | 2.0 | 9.8 | 8.0 | 0.8 | 5.0 | 5.1 |
| TU-SM3UPO30ZT | M3X0.5 ISO | 2.0 | 3.0 | 10.8 | | | | |
| TU-SM4UPO30ZT | M4X0.7 ISO | 0.5 | 3.0 | 10.8 | 10.0 | 0.8 | 6.0 | 6.0 |
| TU-SM4UPO45ZT | M4X0.7 ISO | 3.0 | 4.5 | 12.3 | | | | |
| TU-SM5UPO30ZT | M5X0.8 ISO | 0.5 | 3.0 | 12.0 | 11.0 | 1.0 | 7.0 | 7.0 |
| TU-SM5UPO55ZT | M5X0.8 ISO | 3.0 | 5.5 | 15.0 | | | | |
| TU-SM6UPO30ZT | M6X1.0 ISO | 0.5 | 3.0 | 14.5 | 13.0 | 1.5 | 9.0 | 9.0 |
| TU-SM6UPO55ZT | M6X1.0 ISO | 3.0 | 5.5 | 16.5 | | | | |
| TU-SM6UPO80ZT | M6X1.0 ISO | 5.5 | 8.0 | 19.0 | 16.0 | 1.5 | 11.0 | 11.0 |
| TU-SM8UPO30ZT | M8X1.25 ISO | 0.5 | 3.0 | 16.0 | | | | |
| TU-SM8UPO55ZT | M8X1.25 ISO | 3.0 | 5.5 | 18.5 | 18.5 | 2.3 | 12.4 | 12.5 |
| TU-SM8UPO80ZT | M8X1.25 ISO | 5.5 | 8.0 | 21.5 | | | | |
| TU-SM10UPO35ZT | M10X1.5 ISO | 0.8 | 3.5 | 19.8 | 19.0 | 2.0 | 13.0 | 13.0 |
| TU-SM10UPO60ZT | M10X1.5 ISO | 3.5 | 6.0 | 22.8 | | | | |
| TU-SM10SPO35ZT | M10X1.5 ISO | 0.8 | 3.5 | 21.0 | 23.0 | 2.0 | 16.0 | 16.0 |
| TU-SM10SPO60ZT | M10X1.5 ISO | 3.5 | 6.0 | 24.0 | | | | |
| TU-SM12UPO40ZT | M12X1.75 ISO | 1.0 | 4.0 | 25.0 | 28.0 | 2.0 | 16.0 | 16.0 |
| TU-SM12UPO70ZT | M12X1.75 ISO | 4.0 | 7.0 | 28.0 | | | | |

UFO SERIES METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Steel | Thread Size | Grip Range (E) | | OL ± 0.35 | D +0.00/-0.5 | K +0.3/-0.05 | d -0.02/-0.15 | Hole Size (b+0.1) |
|----------------------|--------------|----------------|------|--------------|-----------------|-----------------|------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SM3UFO35ZT | M3X0.5 ISO | 1.7 | 3.5 | 11.25 | 8.0 | 1.5 | 5.0 | 5.1 |
| TU-SM4UFO35ZT | M4X0.7 ISO | 1.7 | 3.5 | 11.5 | | | | |
| TU-SM4UFO50ZT | M4X0.7 ISO | 3.5 | 5.0 | 13.0 | 9.0 | 1.5 | 6.0 | 6.0 |
| TU-SM5UFO40ZT | M5X0.8 ISO | 1.7 | 4.0 | 13.0 | | | | |
| TU-SM5UFO65ZT | M5X0.8 ISO | 4.0 | 6.5 | 16.0 | 10.0 | 1.5 | 7.0 | 7.0 |
| TU-SM6UFO45ZT | M6X1.0 ISO | 1.7 | 4.5 | 17.0 | | | | |
| TU-SM6UFO65ZT | M6X1.0 ISO | 4.5 | 6.5 | 19.0 | 12.0 | 1.5 | 9.0 | 9.0 |
| TU-SM8UFO45ZT | M8X1.25 ISO | 1.7 | 4.5 | 19.0 | | | | |
| TU-SM8UFO65ZT | M8X1.25 ISO | 4.5 | 6.5 | 21.0 | 14.0 | 1.5 | 11.0 | 11.0 |
| TU-SM10UFO45ZT | M10X1.5 ISO | 1.7 | 4.5 | 21.0 | | | | |
| TU-SM10UFO65ZT | M10X1.5 ISO | 4.5 | 6.5 | 23.0 | 15.4 | 1.5 | 12.4 | 12.5 |
| TU-SM12UFO45ZT | M12X1.75 ISO | 2.0 | 4.5 | 26.0 | | | | |
| TU-SM12UFO75ZT | M12X1.75 ISO | 4.5 | 7.5 | 29.0 | 19.0 | 1.8 | 16.0 | 16.0 |

PART NUMBERING SYSTEM

| UPO Specifications | Part Number |
|---|------------------------|
| Material: Steel QST 34-3 Stainless Steel 304 Cu Stainless Steel 316 Cu Aluminum ALMG 2.5 | Example: TU-SM5UPO30ZT |
| Product Style: Metric | S |
| Material: S-Steel | M5 |
| A-Aluminum | UP |
| SS-304 Stainless Steel | Thread Size |
| *316-316 Stainless Steel | Product Type |
| | O - Open End |
| | X - Closed End |
| | 30 |
| | Grip Range |
| | ZT |
| | Zinktop (Clear) |

| UFO Specifications | Part Number |
|---|------------------------|
| Material: Steel QST 34-3 Stainless Steel 304 Cu Aluminum ALMG 2.5 | Example: TU-SM5UFO35ZT |
| Product Style: Metric | S |
| Material: S-Steel | M5 |
| A-Aluminum | UF |
| SS-304 Stainless Steel | Thread Size |
| *316-316 Stainless Steel | Product Type |
| | O - Open End |
| | X - Closed End |
| | 35 |
| | Grip range |
| | ZT |
| | Zinktop (Clear) |

| RoHs Compliant Finish: | Special finish or material available upon request |
|-------------------------------|---|
| Zinktop (Clear), 96 w / 480 r | A-Aluminum |
| | SS-304 Stainless Steel |
| | Countersunk Head |
| | Metric Body |

*316 Stainless Steel has extra corrosion resistance and can be used in the medical, chemical and food industries. Grip Range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Closed End sizes available: M4, M5, M6, and M8. Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock. Contact Sherex for test data. Mating material holes must be smaller than flange diameter.

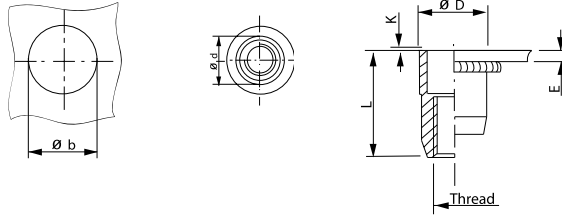
INSTALLATION TOOLING

UPO and UFO Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 37-42.

All Parts have been manufactured by: **DEJOND**
TUBTARA® - A DEJOND PRODUCT

Sherex Fastening Solutions • 866-474-3739 • www.sherex.com • info@sherex.com

UKO SMALL FLANGE ROUND METRIC SERIES



**UKO
SERIES**



- The UKO inch series has a smaller flange that gives a near flush installation.
- Metric body and metric threads

UKO UNIFIED THREAD (UNIT - INCHES)

| Part Number (304 Stainless Steel) | Thread Size | Grip Range (E) | | L | D | K | Diameter-Inch (d) | Diameter-Metric (d) | Hole Size - Inch (b ^{+.004}) | Hole Size - Metric (b ^{+0.1}) |
|--------------------------------------|-------------|----------------|------|------|------|------|----------------------|------------------------|---|--|
| | | Min. | Max. | | | | | | | |
| TU-SS1032UKO30 | 10-32 UNF | .020 | .118 | .472 | .295 | .020 | .276 | 7.0 | .276 | 7.0 |
| TU-SS2520UKO30 | 1/4-20 UNC | .020 | .118 | .571 | .374 | .020 | .354 | 9.0 | .354 | 9.0 |
| TU-SS3118UKO30 | 5/16-18 UNC | .020 | .118 | .630 | .453 | .020 | .433 | 11.0 | .433 | 11.0 |

METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Steel | Thread Size | Grip Range (E) | | OL ± 0.35 | D +0.3/-0.15 | K +0.3/-0.05 | d -0.02/-0.15 | Hole Size (b+0.1) |
|----------------------|-------------|----------------|------|--------------|-----------------|-----------------|------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SM4UKO30ZT | M4X0.7 ISO | 0.5 | 3.0 | 10.75 | 6.5 | 0.5 | 6.0 | 6.0 |
| TU-SM5UKO30ZT | M5X0.8 ISO | 0.5 | 3.0 | 12.0 | 7.5 | 0.5 | 7.0 | 7.0 |
| TU-SM5UKO55ZT | M5X0.8 ISO | 3.0 | 5.5 | 15.0 | | | | |
| TU-SM6UKO30ZT | M6X1.0 ISO | 0.5 | 3.0 | 14.5 | 9.5 | 0.5 | 9.0 | 9.0 |
| TU-SM6UKO55ZT | M6X1.0 ISO | 3.0 | 5.5 | 16.5 | | | | |
| TU-SM8UKO30ZT | M8X1.25 ISO | 0.5 | 3.0 | 16.0 | 11.5 | 0.5 | 11.0 | 11.0 |
| TU-SM8UKO55ZT | M8X1.25 ISO | 3.0 | 5.5 | 18.5 | | | | |
| TU-SM10UKO35ZT | M10X1.5 ISO | 0.8 | 3.5 | 19.5 | 12.9 | 0.5 | 12.4 | 12.5 |

PART NUMBERING SYSTEM

| UKO Specifications | Part Number |
|---|---|
| Material: Steel QST 34-3 Stainless Steel 304 Cu Stainless Steel 316 Cu Aluminum ALMG 2.5 | Example: TU-SM5UKO30ZT TU S M5 UK O 30 ZT Product Style: Material Thread Size Product Type O-Open End Grip range Zinktop (Clear) Metric S-Steel Smooth Shank X-Closed A-Aluminum Small Flange, Round End SS-304 Stainless Steel Body *316-316 Stainless Steel Metric Body |
| RoHs Compliant Finish: Zinktop (Clear), 96 w / 480 r | Special finish or material available upon request |

*316 Stainless Steel has extra corrosion resistance and can be used in the medical, chemical and food industries.

Grip Range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Closed End sizes available: M4, M5, M6, M8.

Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock.

Contact Sherex for test data.

Mating material holes must be smaller than flange diameter.

INSTALLATION TOOLING

UKO Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 37-42.

All Parts have been manufactured by DEJOND

TUBTARA®- A DEJOND PRODUCT



Available with knurled shank for increased performance (KN Series).

UPO RS LARGE FLANGE AND UFO RS COUNTERSUNK HEAD KNURLED METRIC SERIES

UPO RS/ UFO RS SERIES



- The UPO RS series has a large flange that provides increased strength and better containment of round or oversized holes.

- Unique knurling increases spin out resistance in soft materials.

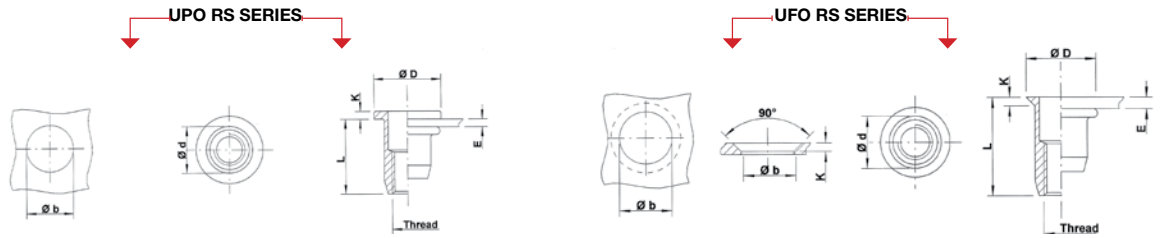
- Metric body and metric threads



- The UFO RS has a countersunk head style for flush installations.

- Unique knurling increases spin out resistance.

- Metric body and metric threads



UPO RS METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Steel | Thread Size | Grip Range (E) | | L ± 0.35 | D ± 0.35 | K ± 0.15 | d -0.02/-0.15 | Hole Size (b+0.1) |
|----------------------|-------------|----------------|------|-------------|-------------|-------------|------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SM4UPO30RZT | M4X0.7 ISO | 0.5 | 3.0 | 10.75 | 10.0 | 0.75 | 6.3 | 6.4 |
| TU-SM4UPO45RZT | M4X0.7 ISO | 3.0 | 4.5 | 12.25 | | | | |
| TU-SM5UPO30RZT | M5X0.8 ISO | 0.5 | 3.0 | 12.0 | 11.0 | 1.0 | 7.3 | 7.4 |
| TU-SM5UPO55RZT | M5X0.8 ISO | 3.0 | 5.5 | 15.0 | | | | |
| TU-SM6UPO30RZT | M6X1.0 ISO | 0.5 | 3.0 | 14.5 | 13.0 | 1.5 | 9.3 | 9.4 |
| TU-SM6UPO55RZT | M6X1.0 ISO | 3.0 | 5.5 | 16.5 | | | | |
| TU-SM8UPO30RZT | M8X1.25 ISO | 0.5 | 3.0 | 16.0 | 16.0 | 1.5 | 11.4 | 11.5 |
| TU-SM8UPO55RZT | M8X1.25 ISO | 3.0 | 5.5 | 18.5 | | | | |
| TU-SM10UPO35RZT | M10X1.5 ISO | 0.8 | 3.5 | 19.75 | 18.5 | 2.25 | 12.9 | 13.0 |
| TU-SM10UPO60RZT | M10X1.5 ISO | 3.5 | 6.0 | 22.75 | | | | |

UFO RS METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Steel | Thread Size | Grip Range (E) | | L ± 0.35 | D +0.00/-0.5 | K +0.3/-0.05 | d -0.02/-0.15 | Hole Size (b+0.1) |
|----------------------|-------------|----------------|------|-------------|-----------------|-----------------|------------------|----------------------|
| | | Min. | Max. | | | | | |
| TU-SM4UFO35RZT | M4X0.7 ISO | 1.7 | 3.5 | 11.5 | 9.0 | 1.5 | 6.3 | 6.4 |
| TU-SM4UFO50RZT | M4X0.7 ISO | 3.5 | 5.0 | 13.0 | | | | |
| TU-SM5UFO40RZT | M5X0.8 ISO | 1.7 | 4.0 | 13.0 | 10.0 | 1.5 | 7.3 | 7.4 |
| TU-SM5UFO65RZT | M5X0.8 ISO | 4.0 | 6.5 | 16.0 | | | | |
| TU-SM6UFO45RZT | M6X1.0 ISO | 1.7 | 4.5 | 17.0 | 12.0 | 1.5 | 9.3 | 9.4 |
| TU-SM6UFO65RZT | M6X1.0 ISO | 4.5 | 6.5 | 19.0 | | | | |
| TU-SM8UFO45RZT | M8X1.25 ISO | 1.7 | 4.5 | 19.0 | 14.0 | 1.5 | 11.4 | 11.5 |
| TU-SM8UFO65RZT | M8X1.25 ISO | 4.5 | 6.5 | 21.0 | | | | |
| TU-SM10UFO45RZT | M10X1.5 ISO | 1.7 | 4.5 | 21.0 | 15.4 | 1.5 | 12.9 | 13.0 |
| TU-SM10UFO65RZT | M10X1.5 ISO | 4.5 | 6.5 | 23.0 | | | | |

PART NUMBERING SYSTEM

UPO RS/UFO RS Specifications Part Number

Example: TU-SM5UPO30RZT

Material:

Steel QST 34-3

TU S M5 UP O 30 R ZT
 Product Style: Material Thread Size Product Type O-Open End Grip Ribbed Zinktop (Clear)
 Metric S-Steel Large Flange, Flat Head Metric Body

RoHs Compliant Finish:

Zinktop (Clear), 96 w / 480 r

Part Number

Example: TU-SM5UFO40RZT

TU S M5 UF O 30 R ZT
 Product Style: Material Thread Size Product Type O-Open End Grip Ribbed Zinktop (Clear)
 Metric S-Steel Smooth Shank Countersunk Head Metric Body

Special finish or material available upon request

Grip Range can be affected by parent material and hole size.

Sherex recommends trial installations to determine the proper grip range for the application.

Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock.

Contact Sherex for test data.

INSTALLATION TOOLING

UPO RS/UFO RS Series can be installed with our Hand Tools and Hydro-Pneumatic Tools.

For additional tooling information see pages 37-42.

All Parts have been manufactured by:



TUBTARA® - A DEJOND PRODUCT

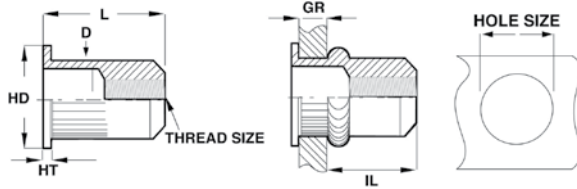
Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.

Sherex Fastening Solutions • 866-474-3739 • www.sherex.com • info@sherex.com

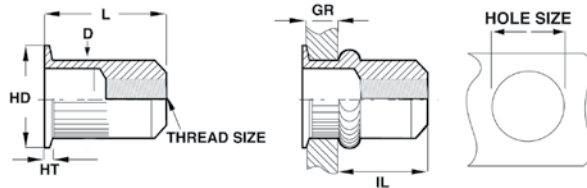
CLM LARGE FLANGE AND CKM SMALL FLANGE KNURLED METRIC SERIES



**CLM/
CKM
SERIES**

CLM METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Metric - Steel | Thread Size | Grip Range (E) | | L Nom. | HD Min. Max. | | HT ±.13 | D Max. | IL Ref. | Hole Size +0.10/- .000 |
|-------------------------------|-------------|----------------|------|-----------|-----------------|-------|------------|-----------|------------|---------------------------|
| | | Min. | Max. | | Min. | Max. | | | | |
| CLM2-470-3.0♦ | M4X0.7 ISO | 0.25 | 3.00 | 11.5 | 8.62 | 9.38 | 0.75 | 5.95 | 7.10 | 6.00 |
| CLM2-580-3.0♦ | M5X0.8 ISO | 0.25 | 3.00 | 13.0 | 9.62 | 10.38 | 1.00 | 6.95 | 7.90 | 7.00 |
| CLM2-610-3.0 | M6X1.0 ISO | 0.50 | 3.00 | 16.0 | 12.62 | 13.38 | 1.50 | 8.95 | 9.40 | 9.00 |
| CLM2-8125-3.0 | M8X1.25 ISO | 0.50 | 3.00 | 17.5 | 15.62 | 16.38 | 1.50 | 10.95 | 11.00 | 11.00 |
| CLM2-1015-3.5♦ | M10X1.5 ISO | 0.50 | 3.50 | 22.0 | 18.12 | 18.88 | 2.25 | 12.95 | 14.50 | 13.00 |



CKM METRIC THREAD (UNIT - MILLIMETERS)

| Part Number Metric - Steel | Thread Size | Grip Range (E) | | L Nom. | HD Min. Max. | | HT ±.13 | D Max. | IL Ref. | Hole Size +0.10/- .000 |
|-------------------------------|-------------|----------------|------|-----------|-----------------|-------|------------|-----------|------------|---------------------------|
| | | Min. | Max. | | Min. | Max. | | | | |
| CKM2-470-3.0♦ | M4X0.7 ISO | 0.25 | 3.00 | 11.3 | 6.70 | 7.20 | 0.46 | 5.95 | 7.10 | 6.00 |
| CKM2-580-3.0♦ | M5X0.8 ISO | 0.25 | 3.00 | 12.7 | 7.70 | 8.20 | 0.46 | 6.95 | 7.90 | 7.00 |
| CKM2-610-3.0♦ | M6X1.0 ISO | 0.50 | 3.00 | 15.3 | 9.70 | 10.20 | 0.50 | 8.95 | 9.40 | 9.00 |
| CKM2-8125-3.0♦ | M8X1.25 ISO | 0.50 | 3.00 | 17.3 | 11.62 | 12.38 | 0.63 | 10.95 | 11.00 | 11.00 |
| CKM2-1015-3.5♦ | M10X1.5 ISO | 0.50 | 3.50 | 20.4 | 13.62 | 14.38 | 0.80 | 12.95 | 14.50 | 13.00 |

♦ Non-Standard Part: Minimum order quantity required after depletion of stock. Please contact Sherex for current availability.

PART NUMBERING SYSTEM

CLM/CKM Specifications

Material:

Steel 1008/1010
Aluminum 5056

RoHS Compliant Finishes:

Zinc Plated-Yellow Trivalent Chromate
per Sherex SFS-01-001, SC2

Zinc Plated-Clear Trivalent Chromate
per Sherex SFS-01-001

Part Number

Example: CLM2-610-3.0

| | | | | |
|---------------|------------|-------------|------------|-------------------|
| CLM | 2 | 610 | 3.0 | () |
| Product Style | Material | Thread Size | Grip Range | Empty-Open End |
| Large Flange | 2-Steel | | | B-Closed End |
| Knurled Body | 3-Aluminum | | | T-Clear Trivalent |
| Metric Body | | | | |
| CKM | 2 | 610 | 3.0 | () |
| Product Style | Material | Thread Size | Grip Range | Empty-Open End |
| Small Flange | 2-Steel | | | B-Closed End |
| Knurled Body | 3-Aluminum | | | T-Clear Trivalent |
| Metric Body | | | | |

Special finish or material available upon request

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application.

Contact Sherex for details.

CLM & CKM style rivet nut specials available upon request.

Contact Sherex for test data.

Mating material holes must be smaller than flange diameter.

INSTALLATION TOOLING

CLM/CKM Series can be installed with our Hand Tools and Hydro-Pneumatic Tools.

For additional tooling information see pages 37-42.

Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

Please contact Sherex when using other grade fasteners.



- The CLM series is the metric body version of the CAL series.

- Metric body and metric threads



- The CKM series is the metric body version of the CAK series.

- Metric body and metric threads

RIVET NUT STUDS



A Rivet Nut Stud is a 2 piece fastener combining a rivet nut and a screw, ideal for thin sheet metal applications with blind installation requirements. Sherex Rivet Nuts are available in a variety of sizes, styles, materials, and finishes. Contact us with your thread size, length, and installation material thickness requirements.

FEATURES AND BENEFITS

- Simple, blind installation
- Reduces processing cost of weld studs
- Eliminates risk of weld spatter and material distortion
- Eliminates cost of post installation paint process
- Can be used as a hanging point or centering pin
- Great for use in wire harnessing

PRODUCT EXAMPLES

Wedge Head Stud



This M6 stud was developed for wire harnessing on a truck frame. The design incorporates a wedgehead feature for increased spin out resistance, and a MAThread® screw for reduced cross thread risk during assembly.

Full Hex Stud



This M12 Full Hex stud was developed as a replacement for a weld stud in an agricultural feeder.

INSTALLATION

Sherex Rivet Nut studs can be installed with specially designed rivet nut stud headsets using our SSG and Flex series tools.

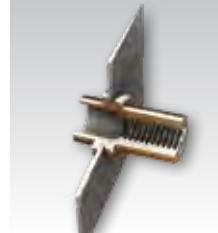


* MAThread® is a registered trademark of MAThread Inc.

Sherex's Application and Design Engineers can create custom, application-specific solutions. We work with our customers to understand the application requirements and manufacturing scenario, and design high performance lowest-total-installed cost solutions. We are available for line walks and to collaborate with your engineering and manufacturing teams. Contact us today to learn more. Here are some examples of custom products created by Sherex:



This Dejong part was designed with a "compression limiter-like" collar on the flat head, used to act as a spacer between two assembled components.



Was developed to attach a molded plastic cover to a base unit. If the rivet nut has an outside thread to accept a nut, the plastic cover could be altered and the external thread of the rivet nut could be used for the attachment point.



Designed with an extra large head to act like a spacer.



Sherex developed this part to add increased spin out resistance in soft materials. Special knurl design provides increased engagement with the base material. Small flange provided near flush installation.



Special small grip part designed for materials thinner than .030 inches.



SPECIALTY FASTENER SOLUTIONS



A replacement for a more expensive, machined component that would periodically spin-out. The customer required a low-profile insert with high spin-out resistance. Sherex developed this part with a half-hex body to increase spin performance, 0.145" max installed length, and higher strength threads to withstand installation forces.



Sherex developed a high strength rivet nut that is compatible with class 10.9 bolts. This design incorporates a full hex body for increased spin out resistance. It also ensures the bolt is the failure mode, which is a best practice when working with structural applications.



Special head and wedge design to meet spin-out requirements in an application.



Sherex shouldered rivet nut was developed for attachments in plastics. The shoulder design provides a positive metal to metal installation redirecting the load of the joint through the rivet nut shoulder. This minimizes the plastic from creeping during assembly and maintains joint clamp load.



M6 prebulbed slotted body design incorporated under head wedges to increase the spin out resistance in soft plastic.



5/16-18 prebulbed slotted body style with a trimmed head. This head feature allowed installation in the field by the consumer or assembler when used with a special low cost installation tool. Feature also allows head to sit flush within a slot to prevent spin out.



Closed end design with o-ring and o-ring recess under head provides the ultimate sealing solution for attachment points in applications with chemicals and other fluids that breakdown other sealing compounds.



We are committed to providing comprehensive solutions that include the right-fit fastener and the right-fit installation tool at the lowest-total-installed-cost. In addition to our standard and speciality fasteners, we offer the following installation system options:

RIVET NUT HAND TOOLS

- Best for small production work and prototyping
- Available in multiple sizes and styles



PNEUMATIC TOOLS (SPIN-SPIN)

- Powered by air pressure
- Available in pistol grip, right angle, and inline styles
- Feature quick change nose piece for headset replacement



HYDRO-PNEUMATIC TOOLS (SPIN-PULL)

- Powered by air pressure and hydraulic fluid
- Best Practices tools for installing all sizes of rivet nuts



PROCESS MONITORING

- Ensure perfect installations
- Configured to evaluate the installation of every rivet nut that is installed in the application



AUTOMATION

- Best for large production environments
- Contact us to discuss your application requirements



Tool Service and Repair

Please contact one of our authorized repair partners for tool service and repair:

Alcorn Industries
5412 Rock Hampton Court
Indianapolis, IN 46268
Alcornindustrial.com
Sales@alcornindustrial.com
1-800-317-4775

Three Day Tool Service
6767 8th Street
Buena Park, CA 90620
Threedaytool.com
sales@threedaytool.com
714-521-9180

RIVET NUT HAND TOOLS

HAND TOOLS



LHF TOOLS

| STANDARD | | |
|-------------|-----------|-----------|
| Thread Size | Mandrel | Anvil |
| 6-32 | LHFM 0632 | LHFA 0632 |
| 8-32 | LHFM 0832 | LHFA 0832 |
| 10-24 | LHFM 1024 | LHFA 10 |
| 10-32 | LHFM 1032 | LHFA 10 |
| 1/4-20 | LHFM 2520 | LHFA 25 |
| 1/4-28 | LHFM 2528 | LHFA 25 |
| M4 | LHFM M4 | LHFA M4 |
| M5 | LHFM M5 | LHFA M5 |
| M6 | LHFM M6 | LHFA M6 |
| M8 | LHFM M8 | LHFA M8 |
| M10 | LHFM M10 | LHFA M10 |

| RIV-FLOAT® | | |
|-------------|-----------|-----------|
| Thread Size | Mandrel | Anvil |
| 6-32 | LHFM 2528 | LHFA 25 |
| 8-32 | LHFM 2528 | LHFA 25 |
| 10-32 | LHFM 1032 | LHFA 10RF |
| 1/4-20 | LHFM 2520 | LHFA 25RF |
| M4 | LHFM 2528 | LHFA 25 |
| M5 | LHFM M5 | LHFA M5RF |
| M6 | LHFM M6 | LHFA M6RF |

| RIV-FLOAT®-SHORT | | |
|------------------|-----------|--------------|
| Thread Size | Mandrel | Anvil |
| 8-32 | LHFM 0832 | LHFM 0832RFS |
| 10-32 | LHFM 1032 | LHFM 1032RFS |
| M4 | LHFM M4 | LHFM M4RFS |
| M5 | LHFM M5 | LHFM M5RFS |

LHF 202 (Imperial Tool) Includes: 8-32, 10-24, and 1/4-20 head sets

LHF 202M (Metric Tool) Includes: M4, M5, and M6 head sets

This hand tool was designed to install any rivet nut ranging in size from 6-32 to 1/4-28 (M4-M10), and is ideal for small production work and prototyping.

DLHT AND DRHT TOOLS (formerly M4 and M5 Hand Tool)



DLHT



DRHT

| STANDARD | | | |
|-------------|--------------------------------------|---------|---------|
| Thread Size | Head Sets (Includes Anvil & Mandrel) | Anvil | Mandrel |
| 6-32 | MHS-0632 | MA-0632 | M-0632 |
| 8-32 | MHS-0832 | MA-0832 | M-0832 |
| 10-24 | MHS-1024 | MA-1024 | M-1024 |
| 10-32 | MHS-1032 | MA-1032 | M-1032 |
| 1/4-20 | MHS-2520 | MA-2520 | M-2520 |
| 1/4-28 | MHS-2528 | MA-2528 | M-2528 |
| 5/16-18 | MHS-3118 | MA-3118 | M-3118 |
| 3/8-16 | MHS-3716 | MA-3716 | M-3716 |
| 1/2-13 | MHS-5013 | MA-5013 | M-5013 |
| M4 | MHS-M4 | MA-M4 | M-M4 |
| M5 | MHS-M5 | MA-M5 | M-M5 |
| M6 | MHS-M6 | MA-M6 | M-M6 |
| M8 | MHS-M8 | MA-M8 | M-M8 |
| M10 | MHS-M10 | MA-M10 | M-M10 |
| M12 | MHS-M12 | MA-M12 | M-M12 |

| RIV-FLOAT® | | | |
|-------------|--------------------------------------|----------------|---------|
| Thread Size | Head Sets (Includes Anvil & Mandrel) | Anvil | Mandrel |
| 8-32 | MHS-0832RF | MA-2520/2528 | M-2528 |
| 10-32 | MHS-1032RF | MA-1032RF | M-1032 |
| 1/4-20 | MHS-2520RF | MA-2520/2528RF | M-2520 |
| M4 | MHS-M4RF | MA-2520/2528 | M-2528 |
| M5 | MHS-M5RF | MA-M5RF | M-M5 |
| M6 | MHS-M6RF | MA-M6RF | M-M6 |

| RIV-FLOAT®-SHORT | | | |
|------------------|--------------------------------------|------------|---------|
| Thread Size | Head Sets (Includes Anvil & Mandrel) | Anvil | Mandrel |
| 8-32 | MHS-0832RFS | MA-0832RFS | M-0832 |
| 10-24 | MHS-1024RFS | MA-10RFS | M-1024 |
| 10-32 | MHS-1032RF | MA-10RFS | M-1032 |
| M4 | MHS-M4RFS | MA-M4RFS | M-M4 |
| M5 | MHS-M5RFS | MA-M5RFS | M-M5 |

DLHT (Imperial Tool) Includes: 1/4-20, 5/16-18, 3/8-16, and 1/2-13 head sets.

DLHT (Metric Tool) Includes: M6, M8, M10, and M12 head sets

DRHT (Imperial Tool) Includes: 10-32, 1/4-20, 5/16-18, and 3/8-16 head sets.

DRHT (Metric Tool) Includes: M5, M6, M8, and M10 head sets

RNHTS TOOL

| STANDARD | |
|-------------|---------|
| Part Number | Thread |
| RNHT-0632 | 6-32 |
| RNHT-0832 | 8-32 |
| RNHT-1024 | 10-24 |
| RNHT-1032 | 10-32 |
| RNHT-2520 | 1/4-20 |
| RNHT-2528 | 1/4-28 |
| RNHT-3118 | 5/16-18 |
| RNHT-3124 | 5/16-24 |
| RNHT-3716 | 3/8-16 |
| RNHT-3724 | 3/8-24 |
| RNHT-4320 | 7/16-20 |
| RNHT-M3 | M3 |
| RNHT-M4 | M4 |
| RNHT-M5 | M5 |
| RNHT-M6 | M6 |
| RNHT-M8 | M8 |
| RNHT-M10 | M10 |

| RIV-FLOAT® | |
|-------------|-------------|
| Thread Size | Part Number |
| 6-32 | RNHT-2528RF |
| 8-32 | RNHT-2528RF |
| 10-32 | RNHT-1032RF |
| 1/4-20 | RNHT-2520RF |
| M4 | RNHT-2528RF |
| M5 | RNHT-M5RF |
| M6 | RNHT-M6RF |

| RIV-FLOAT®-SHORT | |
|------------------|-------------|
| Thread Size | Part Number |
| M4 | RNHT-M4RFS |
| M5 | RNHT-M5RFS |



RIVET NUT PNEUMATIC SPIN - SPIN TOOLS

Designed for installing steel or aluminum CAL, CAK, CAH, CAO, CFT/CAT*, CFW/CAW* and CPB rivet nut inserts. Features quick change nose piece for head set replacement without tools.

*Can install stainless steel.

**RIVET NUT
PNEUMATIC
SPIN - SPIN
TOOLS**

**SSG-800
PISTOL GRIP STYLE**



**SSG-910
RIGHT ANGLE STYLE**



**SSG-900
INLINE STYLE**



| Part Number | Thread Size | Tool RPM | | Air Pressure (Dynamic) PSI | Weight LBS | Air Inlet NPT | Air Use CFM | Minimum Hose Size IN | Complete Head Assembly | Hex Driver | Mandrel | Bearing Set | Complete Head Assembly Rivet Nut Stud |
|----------------------|-------------|--------------------|------------|----------------------------|------------|---------------|-------------|----------------------|------------------------|------------|------------|-------------|---------------------------------------|
| | | 801&901 | 911 | | | | | | | | | | |
| SSG - 801, 901 & 911 | 4-40 | 3000 | 2200 | 35-45 | 3.0 | 1/4" | 5 | 3/8 | HS-0440 | HD-4 | M-0440-150 | BS-4 | |
| | 6-32 | 3000 | 2200 | 70-80 | 3.0 | 1/4" | 5 | 3/8 | HS-0632 | HD-6 | M-0632-150 | BS-6 | HSS-0632 |
| | 8-32 | 3000 | 2200 | 70-90 | 3.0 | 1/4" | 5 | 3/8 | HS-0832 | HD-8 | M-0832-150 | BS-8 | |
| | M3 | 3000 | 2200 | 35-45 | 3.0 | 1/4" | 5 | 3/8 | HS-M3 | HD-M3 | M-M3-30 | BS-M3 | |
| | M4 | 3000 | 2200 | 35-45 | 3.0 | 1/4" | 5 | 3/8 | HS-M4 | HD-M4 | M-M4-35 | BS-M4 | |
| | | 802&902 | 912 | | | | | | | | | | |
| SSG - 802, 902 & 912 | 10-24 | 1500 | 1100 | 60-80 | 3.0 | 1/4" | 5 | 3/8 | HS-1024 | HD-10 | M-1024-175 | BS-10 | |
| | 10-32 | 1500 | 1100 | 60-80 | 3.0 | 1/4" | 5 | 3/8 | HS-1032 | HD-10 | M-1032-175 | BS-10 | HSS-1032 |
| | 1/4-20 | 1500 | 1100 | 70-90 | 3.0 | 1/4" | 5 | 3/8 | HS-2520 | HD-25 | M-2520-175 | BS-25 | HSS-2520 |
| | 1/4-28 | 1500 | 1100 | 70-90 | 3.0 | 1/4" | 5 | 3/8 | HS-2528 | HD-25 | M-2528-200 | BS-25 | |
| | M5 | 1500 | 1100 | 60-80 | 3.0 | 1/4" | 5 | 3/8 | HS-M5 | HD-M5 | M-M5-40 | BS-M5 | HSS-M5 |
| | M6 | 1500 | 1100 | 70-90 | 3.0 | 1/4" | 5 | 3/8 | HS-M6 | HD-M6 | M-M6-40 | BS-M6 | HSS-M6 |
| | | 803&903 | 913 | | | | | | | | | | |
| SSG - 803, 903 & 913 | 5/16-18 | 600 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3118 | HD-31 | M-3118-175 | BS-31 | |
| | 5/16-24 | 600 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3124 | HD-31 | M-3124-175 | BS-31 | |
| | 3/8-16 | 600 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3716 | HD-37 | M-3716-200 | BS-37 | HSS-3716 |
| | 3/8-24 | 600 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3724 | HD-37 | M-3724-200 | BS-37 | |
| | M8 | 600 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-M8 | HD-M8 | M-M8-40 | BS-M8 | HSS-M8 |
| M10 | 600 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-M10 | HD-M10 | M-M10-45 | BS-M10 | | |
| | | | | | | | | | | | | | |
| SSG - 804 | 5/16-18 | 400 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3118 | HD-31 | M-3118-175 | BS-31 | |
| | 5/16-24 | 400 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3124 | HD-31 | M-3124-175 | BS-31 | |
| | 3/8-16 | 400 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3716 | HD-37 | M-3716-200 | BS-37 | |
| | 3/8-24 | 400 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-3724 | HD-37 | M-3724-200 | BS-37 | |
| | M8 | 400 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-M8 | HD-M8 | M-M8-40 | BS-M8 | HSS-M8 |
| M10 | 400 | 400 | 90-110 | 3.0 | 1/4" | 5 | 3/8 | HS-M10 | HD-M10 | M-M10-45 | BS-M10 | | |
| | | | | | | | | | | | | | |
| SSG-808 | 1/2-13 | 275 | 275 | 75-120 | 4.0 | 1/4" | 5 | 3/8 | HS-5013 | HD-50 | M-5013-250 | BS-50 | |
| | 1/2-20 | 275 | 275 | 75-120 | 4.0 | 1/4" | 5 | 3/8 | HS-5020 | HD-50 | M-5020-225 | BS-50 | |
| | M12 | 275 | 275 | 75-120 | 4.0 | 1/4" | 5 | 3/8 | HS-M12 | HD-M12 | M-M12-60 | BS-M12 | |

*Contact Sherex for Prebulbed (CPB) Mandrel part numbers and for SSG replacement part numbers.

Contact Sherex for SSG Replacement part numbers.

*Weight for 800 series only.

High temperature grease should be used to lubricate the bearing set. Contact Sherex for availability.

Sherex recommends the use of an air regulator, air filter, and lubrication system to reduce the wear of internal components. It is also recommended to lubricate the mandrel to increase performance. Mandrels should be replaced when excessive thread wear occurs with a high quality socket head cap screw.

RIVET NUT HYDRO-PNEUMATIC FLEX-5 TOOL

FLEX-5 TOOL

One Tool With Pull to Pressure & Pull to Stroke Capabilities



FLEX-5P: The Sherex FLEX-5P utilizes a Pull to Pressure method of installation. This method allows the same insert type to be installed into varying material thicknesses (within the Grip Range of the part) without any adjustment to the tool.



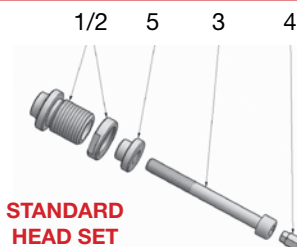
FLEX-5S: The Sherex FLEX-5S utilizes a Pull to Stroke method of installation. This method allows the insert to be installed to the same distance each time. This is helpful when installing into soft materials (prevents crushing of the base material) or when a specific Installed Length is required.

View our FLEX-5 Tool Demonstrations at www.sherex.com

FEATURES AND BENEFITS

Change over kit for converting between pull to pressure and pull to stroke

- Installs Rivet Nuts from: M3-M10 and 4-40-3/8-16.
- Push to start nose piece to spin on fastener.
- Single stage trigger.
- Automatic reverse with manual reverse bypass.
- Quick change mandrel design.
- Light weight (4.2 lbs).
- Can be suspended from a balancer.
- Socket head cap screw mandrel.
- Installs Rivet Nut Studs from M5-M8 and 10-24-5/16-24.
- Available in an in-line version.
- Split tool available (remote booster for lighter tool).
- Upgradeable to process monitoring.
- 5,000 lbs (22 kN) pulling force at 90 psi.
- 7 mm (0.276 in.) of available stroke.
- 2-3 second cycle time.
- All aluminum design for improved durability.



HEAD SETS FOR STANDARD RIVET NUTS

| Thread Size | Complete Headset | Anvil (1 + 2) | Mandrel (3) | Hex Driver (4) | Reducing sleeve (5) |
|-------------|------------------|------------------|---------------|------------------|---------------------|
| M 3 | FL5 - HS - M3 | FL5 - HS - 00903 | M -M3 -40 | FL5 - HS - 01003 | FL5 - HS - 09103 |
| M 4 | FL5 - HS - M4 | FL5 - HS - 00904 | M -M4 - 55 | FL5 - HS - 01004 | FL5 - HS - 09104 |
| M 5 | FL5 - HS - M5 | FL5 - HS - 00905 | M -M5 - 65 | FL5 - HS - 01005 | FL5 - HS - 09105 |
| M 6 | FL5 - HS - M6 | FL5 - HS - 00906 | M -M6 - 65 | FL5 - HS - 01006 | FL5 - HS - 09106 |
| M 8 | FL5 - HS - M8 | FL5 - HS - 00908 | M -M8 - 65 | FL5 - HS - 01008 | FL5 - HS - 09108 |
| M 10 | FL5 - HS - M10 | FL5 - HS - 00910 | M -M10 - 65 | FL5 - HS - 01010 | n/a |
| 4 - 40 UNC | FL5 - HS - 0440 | FL5 - HS - 00854 | M -0440 - 175 | FL5 - HS - 00754 | FL5 - HS - 09154 |
| 6 -32 UNC | FL5 - HS - 0632 | FL5 - HS - 00856 | M -0632 - 175 | FL5 - HS - 00756 | FL5 - HS - 09156 |
| 8 -32 UNC | FL5 - HS - 0832 | FL5 - HS - 00858 | M -0832 - 175 | FL5 - HS - 00758 | FL5 - HS - 09158 |
| 10-24 UNC | FL5 - HS - 1024 | FL5 - HS - 00850 | M -1024 - 250 | FL5 - HS - 00750 | FL5 - HS - 09150 |
| 10-32 UNF | FL5 - HS - 1032 | FL5 - HS - 00850 | M -1032 - 250 | FL5 - HS - 00750 | FL5 - HS - 09150 |
| 1/4-20 UNC | FL5 - HS - 2520 | FL5 - HS - 00848 | M -2520 - 250 | FL5 - HS - 00748 | FL5 - HS - 09148 |
| 1/4-28 UNF | FL5 - HS - 2528 | FL5 - HS - 00848 | M -2528 - 250 | FL5 - HS - 00748 | FL5 - HS - 09148 |
| 5/16-18 UNC | FL5 - HS - 3118 | FL5 - HS - 00840 | M -3118 - 250 | FL5 - HS - 00740 | FL5 - HS - 09140 |
| 5/16-24 UNF | FL5 - HS - 3124 | FL5 - HS - 00840 | M -3124 - 250 | FL5 - HS - 00740 | FL5 - HS - 09140 |
| 3/8-16 UNC | FL5 - HS - 3716 | FL5 - HS - 00842 | M -3716 - 250 | FL5 - HS - 00742 | n/a |
| 3/8-24 UNF | FL5 - HS - 3724 | FL5 - HS - 00842 | M -3724 - 250 | FL5 - HS - 00742 | n/a |

RIVET NUT HYDRO-PNEUMATIC FLEX-5 TOOL & MS 100 TOOL

HEAD SETS FOR RIVET NUT STUDS

| Thread Size | Complete Headset | Anvil (1 + 2) | Mandrel (3) | Hex Driver (4) | Reducing sleeve (5) |
|---------------|------------------|------------------|------------------|------------------|---------------------|
| M5 | FL5 - HS - M5S | FL5 - HS - S0905 | FL5 - HS - 0S005 | FL5 - HS - 01010 | n/a |
| M6 | FL5 - HS - M6S | FL5 - HS - S0906 | FL5 - HS - 0S006 | FL5 - HS - 01010 | n/a |
| M8* | FL5 - HS - M8S | FL5 - HS - S0908 | FL5 - HS - 0S008 | FL5 - HS - 01010 | n/a |
| 10-24 UNC | FL5 - HS - 1024S | FL5 - HS - S0850 | FL5 - HS - S1024 | FL5 - HS - 01010 | n/a |
| 10-32 UNF | FL5 - HS - 1032S | FL5 - HS - S0850 | FL5 - HS - S1032 | FL5 - HS - 01010 | n/a |
| 1/4-20 UNC | FL5 - HS - 2520S | FL5 - HS - S0848 | FL5 - HS - S2520 | FL5 - HS - 01010 | n/a |
| 1/4-28 UNF | FL5 - HS - 2528S | FL5 - HS - S0848 | FL5 - HS - S2528 | FL5 - HS - 01010 | n/a |
| 5/16-18 UNC * | FL5 - HS - 3118S | FL5 - HS - S0840 | FL5 - HS - S3118 | FL5 - HS - 01010 | n/a |
| 5/16-24 UNF * | FL5 - HS - 3124S | FL5 - HS - S0840 | FL5 - HS - S3124 | FL5 - HS - 01010 | n/a |

*Head sets include p/n FL5-HS-12S92 adaptor nut

HEAD SETS FOR RIV-FLOAT®

| Thread Size | Complete Headset | Anvil (1 + 2) | Mandrel (3) | Hex Driver (4) | Reducing sleeve (5) |
|-------------|------------------|---------------|-------------|----------------|---------------------|
| M4 | FL5-HS-2528R | FL5-HS-00848 | M-2528-225 | FL5-HS-00748 | FL5-HS-09148 |
| M5 | FL5-HS-M5R | FL5-HS-R0995 | M-M5-65 | FL5-HS-01005 | FL5-HS-09105 |
| M6 | FL5-HS-M6R | FL5-HS-R0996 | M-M6-65 | FL5-HS-01006 | FL5-HS-09106 |
| 4-40 UNC | FL5-HS-2528R | FL5-HS-00848 | M-2528-225 | FL5-HS-00748 | FL5-HS-09148 |
| 6-32 UNC | FL5-HS-2528R | FL5-HS-00848 | M-2528-225 | FL5-HS-00748 | FL5-HS-09148 |
| 8-32 UNC | FL5-HS-2528R | FL5-HS-00848 | M-2528-225 | FL5-HS-00748 | FL5-HS-09148 |
| 10-24 UNC | FL5-HS-1024R | FL5-HS-R0950 | M-1024-250 | FL5-HS-00750 | FL5-HS-09150 |
| 10-32 UNF | FL5-HS-1032R | FL5-HS-R0950 | M-1032-250 | FL5-HS-00750 | FL5-HS-09150 |
| 1/4-20 UNC | FL5-HS-2520R | FL5-HS-R0948 | M-2520-250 | FL5-HS-00748 | FL5-HS-09148 |
| 1/4-28 UNF | FL5-HS-2528R1 | FL5-HS-R0948 | M-2528-250 | FL5-HS-00748 | FL5-HS-09148 |

HEAD SETS FOR RIV-FLOAT®-SHORT

| Thread Size | Complete Headset | Anvil (1 + 2) | Mandrel (3) | Hex Driver (4) | Reducing sleeve (5) |
|-------------|------------------|---------------|-------------|----------------|---------------------|
| M4 | FL5-HS-M4SR | FL5-HS-SR0994 | M-M4-55 | FL5-HS-01004 | FL5-HS-09104 |
| M5 | FL5-HS-M5SR | FL5-HS-SR0995 | M-M5-65 | FL5-HS-01005 | FL5-HS-09105 |
| 8-32 UNC | FL5-HS-0832SR | FL5-HS-SR0858 | M-0832-150 | FL5-HS-00758 | FL5-HS-09158 |
| 10-24 UNC | FL5-HS-1024SR | FL5-HS-SR0950 | M-1024-225 | FL5-HS-00750 | FL5-HS-09150 |
| 10-32 UNF | FL5-HS-1032SR | FL5-HS-SR0950 | M-1032-225 | FL5-HS-00750 | FL5-HS-09150 |

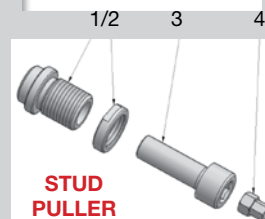
MS100 RIVET NUT TOOL

| MS100 | | |
|-------------|-------------|-------------|
| Thread Size | Mandrel | Anvil |
| 5/16-18 | MA-373-3118 | MA-369-3118 |
| 5/16-24 | MA-377-3124 | MA-369-3118 |
| 3/8-16 | MA-374-3716 | MA-370-3716 |
| 3/8-24 | MA-378-3724 | MA-370-3716 |
| 7/16-14 | MA-375-4314 | MA-371-4314 |
| 7/16-20 | MA-301-4320 | MA-371-4314 |
| 1/2-13 | MA-376-5013 | MA-372-5013 |
| 1/2-20 | MA-379-5020 | MA-372-5013 |
| M8 | MA-308-08MM | MA-318-08MM |
| M10 | MA-310-10MM | MA-320-10MM |
| M12 | MA-312-12MM | MA-322-12MM |
| M14 | MA-314-14MM | MA-324-14MM |

The MS 100 Rivet Nut installation tool installs rivet nuts from 5/16-18 to 1/2-20 and M8 to M14. It also installs 5/16 -18 and M8 Riv-Float®. The MS 100 tool comes with one mandrel and one anvil.

The MS 100 Rivet Nut installation tool should be operated at 80-100 psi. Sherex recommends the use of an air regulator, air filter and lubrication system to reduce the wear of internal components. It is also recommended to lubricate the mandrel to increase performance. Mandrels should be replaced when excessive thread wear occurs.

FLEX-5 TOOL



STUD PULLER



RIV-FLOAT® HEAD SETS



RIVET NUT HYDRO-PNEUMATIC FLEX-18 TOOL

FLEX-18 TOOL



FEATURES AND BENEFITS

The most powerful tool on the market providing Pull to Pressure and Pull to Stroke installation capabilities.

- Installs Rivet Nuts from M8 to M16 and 5/16-18 to 3/4-10.
- Push to start nose piece to spin on fastener.
- Single stage trigger.
- Automatic reverse with manual reverse bypass.
- Quick change mandrel design.
- Socket head cap screw mandrel for sizes up to M12 and 1/2-20.
- Can be suspended from a balancer.
- **18,000 lbs. (80 kN) of pulling force.**
- **15 mm (.591 in) of available stroke.**
- Upgradeable to process monitoring.
- 2-3 second cycle time.
- Light weight handle (8.0 lbs.).
- All aluminum handle design for improved durability.

HEAD SETS FOR STANDARD SIZE NOSE CASE

| Thread Size | Complete Headset | Anvil | Mandrel | Hex Driver | Adaptor Nut |
|-------------|------------------|------------------|-------------|------------------|------------------|
| M8 | FL18 - HS -M8 | FL18 - HS -00908 | M-M8 -65 | FL5 - HS -010 08 | FL18 - HS -09108 |
| M10 | FL18 - HS -M10 | FL18 - HS -00910 | M-M10-65 | FL5 - HS -01010 | FL18 - HS -09110 |
| M12 | FL18 - HS -M12 | FL18 - HS -00912 | M-M12-65 | FL18 - HS -01012 | FL18 - HS -09112 |
| 5/16-18 UNC | FL18 - HS -3118 | FL18 - HS -00908 | M-3118 -250 | FL5 - HS -00740 | FL18 - HS -09108 |
| 5/16-24 UNF | FL18 - HS -3124 | FL18 - HS -00908 | M-3124 -250 | FL5 - HS -00740 | FL18 - HS -09108 |
| 3/8-16 UNC | FL18 - HS -3716 | FL18 - HS -00910 | M-3716 -300 | FL5 - HS -00742 | FL18 - HS -09110 |
| 3/8-24 UNF | FL18 - HS -3724 | FL18 - HS -00910 | M-3724 -300 | FL5 - HS -00742 | FL18 - HS -09110 |
| 1/2-13 UNC | FL18 - HS -5013 | FL18 - HS -00950 | M-5013 -300 | FL18 - HS -00750 | FL18 - HS -09150 |
| 1/2-20 UNF | FL18 - HS -5020 | FL18 - HS -00950 | M-5020 -300 | FL18 - HS -00750 | FL18 - HS -09150 |

HEAD SETS FOR LARGE SIZE NOSE CASE

| Thread Size | Complete Headset | Anvil | Mandrel |
|-------------|------------------|------------------|--------------|
| M16 | FL18 - HS -M16 | FL18 - HS -00916 | M-M16-FL 18 |
| 5/8-11 UNC | FL18 - HS -6211 | FL18 - HS -00962 | M-6211 -FL18 |
| 3/4-10 UNC | FL18 - HS -7510 | FL18 - HS -00975 | M-7510 -FL18 |

View our FLEX-18 tool demonstration at www.sherex.com

Contact Sherex for more information on Process Monitoring Tools.

The Hand Tool Calibration Unit measures the pulling force for **both pneumatic and hydro-pneumatic tools** to ensure the tool is meeting the required setting force to install into the application.

With the ability to measure the pull force of a tool before performing an install, operators are assured the tool is calibrated correctly to make a **perfect install**.



CALIBRATION
UNIT

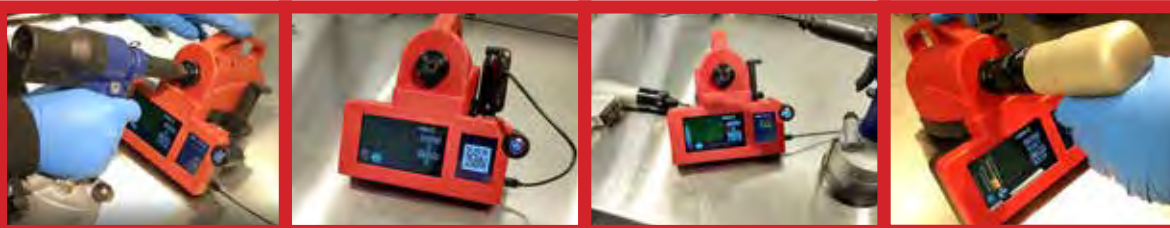
FEATURES AND BENEFITS

Improve the quality of your rivet nut installations in real time

- Measures pulling force for spin-spin and spin-pull tools.
- Start measuring tools immediately.
- Displays value and curve when unit detects any load applied from rivet nut hand tools.
- Secondary screen displays data from up to seven previous tests.
- Aggregates average and Maximum pull.
- Interchangeable headsets for sizes M4 / #6-32 through M12 and 1/2"-13.
- Rivet nut stud headsets available for M5 / #8-32 through M8 / 3/8"-16
- Integrated microSD card slot for data storage and transfer.
- Ergonomically designed for use on a work station.
- Optional power bank connected to the unit via USB-Type C.

Other Benefits Include

- *Schedule tool maintenance*
- *View historical performance*
- *Compare installation methods*
- *Mobile*
- *Installation efficiency*
- *Maintenance reductions*
- *Reduce scrap*
- *Improve tool functionality*



Visit www.sherex.com/calibration-unit
for more information and videos on Sherex's Hand Tool Calibration Unit

TESTING METHODS

PULL OUT



Definition:

- Pull Out occurs when threads are pulled from the rivet nut (ultimate thread strength) or base material is distorted and the entire rivet nut pulls through the base material.

Causes:

- Hole size is too large.
- Forces applied to the joint are higher than anticipated.

SPIN OUT



Definition:

- Spin Out is the amount of torque required to make a rivet nut spin in the hole in which it was installed.

Causes:

- Bolt cross threads into the rivet nut causing it to spin.
- Excessive corrosion causes bolt to bind in the nut.
- Using a screw with mechanical locking feature that has higher prevailing torque than the spin out of the rivet nut.

TORQUE OUT



Definition:

- Torque force required to strip threads out of the rivet nut.
- This method of testing sandwiches the head of the rivet nut between the non-rotational mating part and parent or base panel.
- Spin Out is not a factor because tightening the bolt on the non-rotating part holds the rivet nut in place and prevents it from spinning.

Causes:

- Assembly torque is too high causing thread failure.
- Improper grade of fastener used.

*Torque can be affected by various factors such as coefficient of friction of the finish, prevailing torque, washers, etc. Sherex recommends you test your application.

SUGGESTED ASSEMBLY TORQUE



Definition:

- Recommended torque for assembling a rivet nut joint with Class 8.8/ Grade 5 hardware.

Contact Sherex should you require Grade 8, Class 10 or higher joint strength.

| THREAD SIZE | SUGGESTED ASSEMBLY TORQUE |
|--------------|--|
| | INCH LBS. - Nm PLATED SCREW GRADE 5 CLASS 8.8 |
| # 6-32 UNC | 12 |
| # 8-32 UNC | 22 |
| # 10-24 UNC | 32 |
| # 10-32 UNF | 36 |
| 1/4-20 UNC | 75 |
| 1/4-28 UNF | 75 |
| 5/16-18 UNC | 156 |
| 5/16-24 UNC | 156 |
| 3/8-16 UNC | 276 |
| 3/8-24 UNF | 276 |
| M4x0.7 ISO | 2.5 |
| M5x0.8 ISO | 5.0 |
| M6x1.0 ISO | 8.6 |
| M8x1.25 ISO | 21.0 |
| M10x1.5 ISO | 42.0 |
| M12x1.75 ISO | 72.0 |

COATINGS

Sherex rivet nuts are coated in a variety of electroplated coatings to increase corrosion resistance. Electroplated coatings are metals within a solution applied via an electrical current, and are RoHS, Reach, and ELV compliant, EXCEPT for Cadmium.





Customer-specific and custom coatings are available on request.

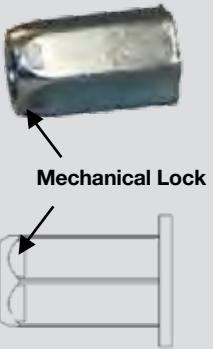

| Coating | Description | Salt Spray Test Results (per ASTM B117-16) |
|---|---|--|
|  Zinktop Clear | <ul style="list-style-type: none"> • Zinc plated then coated (passivated) with Trivalent Chromate • Standard on Dejong Tubtara® • Color: clear | <ul style="list-style-type: none"> • 96 hours before white rust • 480 hours before red rust |
|  Zinc Nickel | <ul style="list-style-type: none"> • Standard Zinc Nickel • Color: silver (clear) or black | <ul style="list-style-type: none"> • 120 hours before white rust • 1,000 hours before red rust |
|  Trivalent Chromate | <ul style="list-style-type: none"> • Zinc plated then coated (passivated) with Trivalent Chromate • Color: yellow, clear, black | <ul style="list-style-type: none"> • 96 hours before white rust • 240 hours before red rust |
|  Tin | <ul style="list-style-type: none"> • Proprietary • Cadmium replacement when RoHS compliance is needed | <ul style="list-style-type: none"> • 96 hours before red rust |
|  CRE | <ul style="list-style-type: none"> • Proprietary Zinc Nickel offering superior performance to standard • Color: silver or black | <ul style="list-style-type: none"> • 500 hours before red rust |
|  CR | <ul style="list-style-type: none"> • Proprietary Zinc Nickel offering superior performance standard • Color: silver or black | <ul style="list-style-type: none"> • 1,000 hours before red rust |
|  Cadmium Yellow | <ul style="list-style-type: none"> • Compliant to ASTM B766, Class 5, Type II, and SAE AMS-QQ-P-416 Class 3, Type II | <ul style="list-style-type: none"> • 96 hours before red rust |
|  Cadmium Clear | <ul style="list-style-type: none"> • Rivet Nuts (CAW, CAT) • Compliant to SAE AMS-QQ-P-416 Class 3, Type 1 with clear coat | <ul style="list-style-type: none"> • 72 hours before white rust • 144 hours before red rust |

RIVET NUT SEALANTS

SEALANTS

Rivet nut head sealants are an ideal solution when a leak proof joint is required. We recommend using in conjunction with closed end rivet nuts for optimal performance.

| Seal | Description | Performance Results | Best Fit Applications |
|--|---|--|---|
| <p>Seal2</p>  | <ul style="list-style-type: none"> • For standard large flange rivet nuts • Prevents fluid or air from passing through head • Resistant to automotive fluids (oils, fuels, antifreeze) • Ideal replacement for PVC foam | <ul style="list-style-type: none"> • Withstands temperatures up to 300F (150C) • No leakage up to 160 psi of backside pressure | <ul style="list-style-type: none"> • Where resistance to automotive fluids is necessary |
| <p>Plastisol</p>  | <ul style="list-style-type: none"> • For standard large flange rivet nuts • PVC particles suspended in plasticizer • Cost effective option for sealing out dirt, dust, and water | <ul style="list-style-type: none"> • Not recommended in applications where contact with automotive fluids is possible | <ul style="list-style-type: none"> • General purpose sealing |
| <p>Silicone</p>  | <ul style="list-style-type: none"> • For standard large flange rivet nuts • Compatible with plastics | <ul style="list-style-type: none"> • Withstands temperatures up to 425F (218C) • Can pass through paint bake for up to 30 minutes with no reduction in sealing performance | <ul style="list-style-type: none"> • Where part must withstand a finish baking process |
| <p>Dejond O-Ring Seal</p>  | <ul style="list-style-type: none"> • For HX Tubtara® parts • O-ring made of Nitrile Rubber (NBR) • Offset groove for metal to metal contact, providing better spin out resistance | <ul style="list-style-type: none"> • Watertight up to 145 PSI (per IP68) • Resistant to hydraulic fluids, organic oils, gasoline, kerosene, and water under 175F (80C) | <ul style="list-style-type: none"> • Marine, automotive, heavy truck, and other harsh environments where a watertight seal is required |

| Product | Description | Performance Results | Best Fit Applications |
|---|---|--|--|
| <p>Mechanical Lock</p>  | <ul style="list-style-type: none"> • The final thread of the rivet nut is mechanically deformed. The deformed thread acts as a prevailing torque feature, which resists vibrational loosening. • Available on most rivet nuts series, including Hex Body, Round Body with keyed head, and Round Body with wedge head • Spin-pull tools are required for installation | <ul style="list-style-type: none"> • Mechanical locks are applied onto rivet nuts to customer specifications, and can be applied to meet IFI, ISO, and NAS prevailing torque specifications. Contact Sherex for more information. | <ul style="list-style-type: none"> • Where joints are susceptible to vibrational loosening • Where currently using locking patch on a bolt. Our Mechanical Lock feature is a cost-effective alternative. |
| <p>Locsert®</p>  | <ul style="list-style-type: none"> • For standard rivet nuts • Adhesive preapplied under the head • During installation, the adhesive bonds the rivet nut to the base material • Increases spin out performance | <ul style="list-style-type: none"> • Has been tested to increase spin out performance on average 87% | <ul style="list-style-type: none"> • Where a round hole is the only option - not able to stamp a hex hole • Increased spin out performance for a round rivet nut |

SHEREX PRODUCT MATRIX

| Product Line | Body Style | | | | | Standard Head Styles | | | | Available Modifications | | Application Base Material | | | | Proof Load Performance | Other | Performance | |
|--------------|---------------|----------------|---------|----------|----------------|----------------------|--------------|------|--------------|-------------------------|-------------|---------------------------|------------|--------------------|----------|------------------------|----------------|-------------|----------|
| | Round, Smooth | Round, Knurled | Slotted | Half Hex | Full Hex | Small Flange | Large Flange | Flat | Counter-sunk | Closed End | Sealed Head | Plastics | Hard Steel | Thick Steel (>.5") | Aluminum | Class 8 Proof Load | RoHs Compliant | Spin Out | Pull Out |
| CAL | | X | | | | | X | | | X | X | R ¹ | P- | P | P+ | | Yes | C | C |
| CAK | | X | | | | X | | | | X | | NR | P- | P | P+ | | Yes | C | C |
| CAH | | | | X | | | X | | | X | X | P ¹ | R | P+ | R | | Yes | B | C |
| CA | X | | | | | | X | X | X | X | | P ¹ | P- | P | P | | Yes | C | A |
| CAO | X | | | | | X | | | | X | | NR | P- | P | P | | Yes | C | C |
| FHK | | | | | X | X | | | | X | X | NR | R | P+ | R | X | Yes | A | A |
| FHL | | | | | X | | X | X | | X | X | P ⁺ | R | P+ | R | X | Yes | A | A |
| CFW | | X *DIAMOND | | | | X | | | | | | P- | P- | R | P | | Yes | C | C |
| CAW | | X *DIAMOND | | | | X | | | | | | P- | P- | R | P | | No | C | C |
| CFT | | X | | | | X | | | | | | NR | P- | R | P | | Yes | C | C |
| CAT | | X | | | | X | | | | | | NR | P- | R | P | | No | C | C |
| CPB | X | | X | | | | X | X | | | | R ¹ | NR | P | P | | Yes | C | A |
| CPN | X | | X | | | | X | X | | | | P ¹ | NR | P | P | | Yes | C | A |
| CFH | | | | | X | | X | X | | X | X | P ¹ | R | P+ | R | | Yes | A | A |
| CFHD | | | | | X | | X | X | | X | X | P ¹ | R | P+ | R | | Yes | A | A |
| LRGR | X | | | | | | X | X | | X | X | R ¹ | P- | P | P+ | X | Yes | C | C |
| LRGH | | | | | X | | X | X | | X | X | P ¹ | R | P+ | R | X | Yes | A | A |
| RFL | | X | | | | | X | | | X | X | R ¹ | P- | P | P+ | | Yes | A | A |
| RFK | | X | | | | X | | | | X | | NR | P- | P | P+ | | Yes | A | A |
| RFSL | | X | | | | | X | | | | X | R ¹ | P- | P | P+ | | Yes | A | A |
| RFSK | | X | | | | X | | | | | | NR | P- | P | P+ | | Yes | A | A |
| UPO | X | | | | | | X | X | X | X | X | P ¹ | P | P | P | | Yes | C | B |
| UFO | X | | | | | | X | | X | X | | P ¹ | P | p | P | | Yes | C | B |
| UKO | X | | | | | X | | X | X | X | | NR | P | p | P | | Yes | C | B |
| HUPO | | | | | X ² | | X | X | X | X | X | P ¹ | R | P+ | R | | Yes | A | A |
| HUKO | | | | | X ² | X | | X | X | X | | NR | R | P+ | R | | Yes | A | A |
| UPO RS | | X | | | | | X | X | X | X | X | R ¹ | P- | P | P+ | | Yes | C | B |
| UFO RS | | X | | | | | X | | X | X | | P ¹ | P- | P | P+ | | Yes | C | B |
| CLM | | X | | | | | X | | | X | X | R ¹ | P- | P | P+ | | Yes | C | B |
| CKM | | X | | | | X | | | | X | | NR | P- | P | P+ | | Yes | C | B |
| SX | X | | | | | | X | X | X | X | X | P ⁺ | P | P | P | | No | C | A |

Rivet nut studs in all product styles (excludes CAT, CAW, CFT, and CFW lines) are available by custom order.

- 1) May require special design features in plastics.
- 2) Stainless and carbon steel only, stainless steel HUPO/HUKO parts are half hex.

A: High
B: Medium
C: Low

R: Recommended
P+: Possible, higher performance
P: Possible
P-: Possible, lower performance
NR: Not recommended

SHEREX DECIMAL EQUIVALENTS & DRILL SIZE CHART

| Drill Size | Inch (Dec.) | Metric (mm) | Drill Size | Inch (Dec.) | Metric (mm) | Drill Size | Inch (Dec.) | Metric (mm) | Drill Size | Inch (Dec.) | Metric (mm) | Drill Size | Inch (Dec.) | Metric (mm) |
|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|
| 80 | .0135 | .343 | 50 | .0700 | 1.778 | 22 | .1570 | 3.988 | G | .2610 | 6.630 | 31/64 | .4844 | 12.304 |
| 79 | .0145 | .368 | 49 | .0730 | 1.854 | 21 | .1590 | 4.039 | 17/64 | .2656 | 6.746 | 1/2 | .5000 | 12.700 |
| 1/64 | .0156 | .396 | 48 | .0760 | 1.930 | 20 | .1610 | 4.089 | H | .2660 | 6.756 | 33/64 | .5156 | 13.096 |
| 78 | .0160 | .406 | 5/64 | .0781 | 1.984 | 19 | .1660 | 4.216 | I | .2720 | 6.909 | 17/32 | .5312 | 13.492 |
| 77 | .0180 | .457 | 47 | .0785 | 1.994 | 18 | .1695 | 4.305 | J | .2770 | 7.036 | 35/64 | .5469 | 13.891 |
| 76 | .0200 | .508 | 46 | .0810 | 2.057 | 11/64 | .1719 | 4.366 | K | .2810 | 7.137 | 9/16 | .5625 | 14.288 |
| 75 | .0210 | .533 | 45 | .0820 | 2.083 | 17 | .1730 | 4.394 | 9/32 | .2812 | 7.142 | 37/64 | .5781 | 14.684 |
| 74 | .0225 | .572 | 44 | .0860 | 2.184 | 16 | .1770 | 4.496 | L | .2900 | 7.366 | 19/32 | .5938 | 15.083 |
| 73 | .0240 | .609 | 43 | .0890 | 2.261 | 15 | .1800 | 4.572 | M | .2950 | 7.493 | 39/64 | .6094 | 15.479 |
| 72 | .0250 | .635 | 42 | .0935 | 2.375 | 14 | .1820 | 4.623 | 19/64 | .2969 | 7.541 | 5/8 | .6250 | 15.875 |
| 71 | .0260 | .660 | 3/32 | .0938 | 2.383 | 13 | .1850 | 4.700 | N | .3020 | 7.671 | 41/64 | .6406 | 16.271 |
| 70 | .0280 | .711 | 41 | .0960 | 2.438 | 3/16 | .1875 | 4.763 | 5/16 | .3125 | 7.938 | 21/32 | .6562 | 16.667 |
| 69 | .0292 | .742 | 40 | .0980 | 2.489 | 12 | .1890 | 4.801 | O | .3160 | 8.026 | 43/64 | .6719 | 17.066 |
| 68 | .0310 | .787 | 39 | .0995 | 2.527 | 11 | .1910 | 4.851 | P | .3230 | 8.204 | 11/16 | .6875 | 17.463 |
| 1/32 | .0312 | .792 | 38 | .1015 | 2.578 | 10 | .1935 | 4.915 | 21/64 | .3281 | 8.334 | 45/64 | .7031 | 17.859 |
| 67 | .0320 | .813 | 37 | .104 | 2.642 | 9 | .1960 | 4.978 | Q | .3320 | 8.433 | 23/32 | .7188 | 18.258 |
| 66 | .330 | .838 | 36 | .1065 | 2.705 | 8 | .1990 | 5.055 | R | .3390 | 8.611 | 47/64 | .7344 | 18.654 |
| 65 | .0350 | .889 | 7/64 | .1094 | 2.779 | 7 | .2010 | 5.105 | 11/32 | .3438 | 8.733 | 3/4 | .7500 | 19.050 |
| 64 | .0360 | .914 | 35 | .1100 | 2.794 | 13/64 | .2031 | 5.159 | S | .3480 | 8.839 | 49/64 | .7656 | 19.446 |
| 63 | .0370 | .940 | 34 | .1110 | 2.819 | 6 | .2040 | 5.182 | T | .3580 | 9.093 | 25/32 | .7812 | 19.842 |
| 62 | .0380 | .965 | 33 | .1130 | 2.870 | 5 | .2055 | 5.220 | 23/64 | .3594 | 9.129 | 51/64 | .7969 | 20.241 |
| 61 | .0390 | .991 | 32 | .1160 | 2.946 | 4 | .2090 | 5.309 | U | .3680 | 9.347 | 13/16 | .8125 | 20.638 |
| 60 | .0400 | 1.016 | 31 | .1200 | 3.048 | 3 | .2130 | 5.410 | 3/8 | .3750 | 9.525 | 53/64 | .8281 | 21.034 |
| 59 | .0410 | 1.041 | 1/8 | .1250 | 3.175 | 7/32 | .2188 | 5.558 | V | .3770 | 9.576 | 27/32 | .8438 | 21.433 |
| 58 | .0420 | 1.067 | 30 | .1285 | 3.264 | 2 | .2210 | 5.613 | W | .3860 | 9.804 | 55/64 | .8594 | 21.829 |
| 57 | .0430 | 1.092 | 29 | .1360 | 3.454 | 1 | .2280 | 5.791 | 25/64 | .3906 | 9.921 | 7/8 | .8750 | 22.225 |
| 56 | .0465 | 1.181 | 28 | .1405 | 3.569 | A | .2340 | 5.944 | X | .3970 | 10.084 | 57/64 | .8906 | 22.621 |
| 3/64 | .0469 | 1.191 | 9/63 | .1406 | 3.571 | 15/64 | .2344 | 5.954 | Y | .4040 | 10.262 | 29/32 | .9062 | 23.017 |
| 55 | .0520 | 1.321 | 27 | .1440 | 3.658 | B | .2380 | 6.045 | 13/32 | .4062 | 10.317 | 59/64 | .9219 | 23.416 |
| 54 | .0550 | 1.397 | 26 | .1470 | 3.734 | C | .2420 | 6.147 | Z | .4130 | 10.490 | 15/16 | .9375 | 23.813 |
| 53 | .0595 | 1.511 | 25 | .1495 | 3.797 | D | .2460 | 6.248 | 27/64 | .4219 | 10.716 | 61/64 | .9531 | 24.209 |
| 1/16 | .0625 | 1.588 | 24 | .1520 | 3.861 | 1/4 | .2500 | 6.350 | 7/16 | .4375 | 11.113 | 31/32 | .9688 | 24.608 |
| 52 | .0635 | 1.613 | 23 | .1540 | 3.912 | E | .2500 | 6.350 | 29/64 | .4531 | 11.509 | 63/64 | .9844 | 25.004 |
| 51 | .0670 | 1.702 | 5/32 | .1562 | 3.967 | F | .2570 | 6.528 | 15/32 | .4688 | 11.908 | 1 | 1.000 | 25.400 |

| No. of Gauge | Aluminum (B & S) | Steel (U.S. Std.) |
|--------------|------------------|-------------------|
| 10 | 0.101 | 0.1345 |
| 11 | 0.0907 | 0.1196 |
| 12 | 0.0808 | 0.1046 |
| 13 | 0.072 | 0.0897 |
| 14 | 0.0641 | 0.0747 |
| 15 | 0.0571 | 0.0673 |
| 16 | 0.0508 | 0.0598 |
| 17 | 0.0453 | 0.0538 |
| 18 | 0.0403 | 0.0478 |
| 19 | 0.0359 | 0.0418 |
| 20 | 0.0320 | 0.0359 |

| No. of Gauge | Aluminum (B & S) | Steel (U.S. Std.) |
|--------------|------------------|-------------------|
| 21 | 0.0285 | 0.0329 |
| 22 | 0.0253 | 0.0299 |
| 23 | 0.0226 | 0.0269 |
| 24 | 0.0201 | 0.0239 |
| 25 | 0.0179 | 0.0209 |
| 26 | 0.0159 | 0.0179 |
| 27 | 0.0142 | 0.0164 |
| 28 | 0.0126 | 0.0149 |
| 29 | 0.0113 | 0.0135 |
| 30 | 0.0100 | 0.0120 |



FASTENING SYSTEMS ENGINEERED FOR PERFORMANCE™

Benefits of Full Hex Rivet Nuts vs. Welded Hex Fasteners

The challenge:

A manufacturer of agricultural equipment was experiencing insufficient throughput rates in its baler product lines.

- The issue was determined to be a result of the welding process used in the numerous attachment points.
- The manufacturer wanted to improve the work environment by reducing the amount of emissions and vapors caused by the welding process.

The solution:

Working directly with the manufacturer, the Sherex engineering team designed a new line of full hex rivet nuts to meet the application performance requirements.

- The new full hex rivet nuts significantly increased the application spin out resistance during installation.
- Sherex provided a complete installation solution to the customer: full hex rivet nuts and the FLEX-5 tool.
- This new process replaced the previous welding process, increasing throughput by 50%.

- Additionally, the new solution eliminated all emissions and vapors associated with the welding process, which led to a safer working environment for the assemblers.

The savings:

Annual usage of the rivet nuts: 1,000,000

Cost savings: \$0.12 per weld = \$120,000 annual savings!

Sherex is a global manufacturer with a unique market approach in engineered fastening solutions that combines fasteners, tooling, and automation to deliver the best solution at the **lowest total installed cost**.



Benefits of In-Die Fastener Installation vs. Welded Fastener Methods

The challenge:

A manufacturer of automotive safety systems was experiencing a high fallout rate at the attachment point of the seat belt retractor assembly.

- The failure was determined to be a result of the secondary welding process that was required to attach the nut to the sheet metal component.
- This process caused a very high percentage of thread damage and distortion of the welded nut.

The solution:

Sherex introduced the manufacturer to an MDS automation in-die fastener installation system.

- By utilizing the MDS automation installation system and incorporating a clinch nut design into the seat rail, the manufacturer was able to produce the sheet metal stamping and place the fastener in the same operation.
- This improvement eliminated the welding process that caused the thread damage.

- The new clinch nut automated process simplified the component manufacturing process by reducing the number of required steps and reduced on-site inventory.

The savings:

Annual part assemblies: 450,000

Cost savings: \$0.37 per part = \$166,500 annual savings!

Sherex is a global manufacturer with a unique market approach in engineered fastening solutions that combines fasteners, tooling, and automation to deliver the best solution at the **lowest total installed cost**.



These are illustrative examples of actual experiences and are intended for sales purposes only.



Sherex also offers a variety of additional product lines to meet customer application requirements:

FASTENERS FOR THIN SHEET PLASTICS



THREADED INSERTS

Threaded Inserts provide a strong threaded attachment point in soft or hard plastics and are ideal when post-mold installation is required.



MOLDED INSERTS

Molded Inserts provide a high performance threaded attachment point in soft or hard plastics, and are ideal for applications where inserts can be installed during the molding process.



COMPRESSION LIMITERS

Compression Limiters are used in conjunction with fasteners in soft or hard plastics applications to prevent overstressing of the base material and clamp loss of the fastened joint. Sherex's compression limiters are custom engineered for the specific application.



LOAD BEARING NUT AND STUD PLATES

Load bearing nut and stud plates are metal plates with pre-installed fasteners. They allow superior joint performance using fasteners typically not used in plastics and composites and reduce fastener installation time on the production line.

Sherex offers two types of load bearing nut and stud plates: Internally Threaded Nut Plates (with Clinch Nuts, Rivet Nuts, Riveting Nuts, or Threaded Inserts installed) and Externally Threaded Stud Plates (with Clinch Nuts or Rivet Nuts installed). All nut and stud plates are custom engineered to meet specific application requirements.

FASTENERS FOR THIN SHEET METALS



CLINCH NUTS

Clinch nuts are self-clinching, internally threaded nuts that are pressed into the base material. They are ideal for applications where there is access to both sides of the base material, and with high thread strength and superior pull-out force requirements. Sherex clinch nuts are available with a serrated clinch feature, a six-lobe clinch feature, or with custom riveting nut feature.

VIBRATIONAL LOOSENING PREVENTION

TECSERIES®



WEDGE LOCKING WASHERS

TEC Series wedge locking washers are heavy duty, reusable, self-locking washers designed to secure safety-critical applications against vibrational loosening. Manufactured using stamping process. Available in carbon and stainless steel sizes M3-M72, #5-3".

DISC-LOCK®



WEDGE LOCKING WASHERS

Disc-Lock wedge locking washers are heavy duty, self-locking washers designed to secure safety-critical applications against vibrational loosening. Ideal for applications where reusability is not required. Manufactured using scrapless cold-forming technology. Available in carbon steel sizes M3-M38, #6-1 1/1 and in stainless steel sizes M6-M24, 1/4"-1".

DISC-LOCK®



WEDGE LOCKING NUTS

Disc-Lock Wedge locking nuts are patented, heavy duty, self-locking nuts designed to protect joint integrity to secure safety critical applications against vibrational loosening. Available in sizes from M10 to M22, 3/8" to 7/8".

**ADDITIONAL
SHEREX
PRODUCT
LINES**

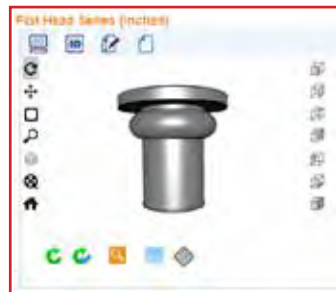
SHEREX WEBSITE AND 3D MODELS

SHEREX WEBSITE



- Complete product catalog featuring thousands of unique parts
- Engineering and sales drawings, marketing literature, pictures and full product specs available online or as a download for offline viewing.

3D MODEL DOWNLOADS



- Sherex utilizes Solidworks® 3D modeling to offer full customization and design capabilities to our customers. Simply click the button on our website to gain access to thousands of 3D models.
- Solidworks® enables customers to select parts based on style of interest, type of material, material thickness, open or closed end, and thread size.
- Once a customer has selected the required options, Solidworks® will create a 3D model of the fastener for placement into your modeling system.
- Models are available in 60 different formats, ranging from 3D XML to Universal 3D. Customers can view parts from any angle or perspective, and download CAD files for offline use.
- Models are available for Imperial/Inch body styles, Full Hex rivet nuts, RIV-FLOAT®, and Brass Inserts.
- Customers can directly request a quote from Sherex through the Solidworks site, and have a customer service rep follow up with them promptly to discuss their unique needs.



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